

Please see the **314 CMR 4.00 Summary and Notice to Reviewers** document, as well as the Fact Sheets on particular topics for additional information and explanatory detail associated with these proposed regulatory changes. These documents are available on the MassDEP Website.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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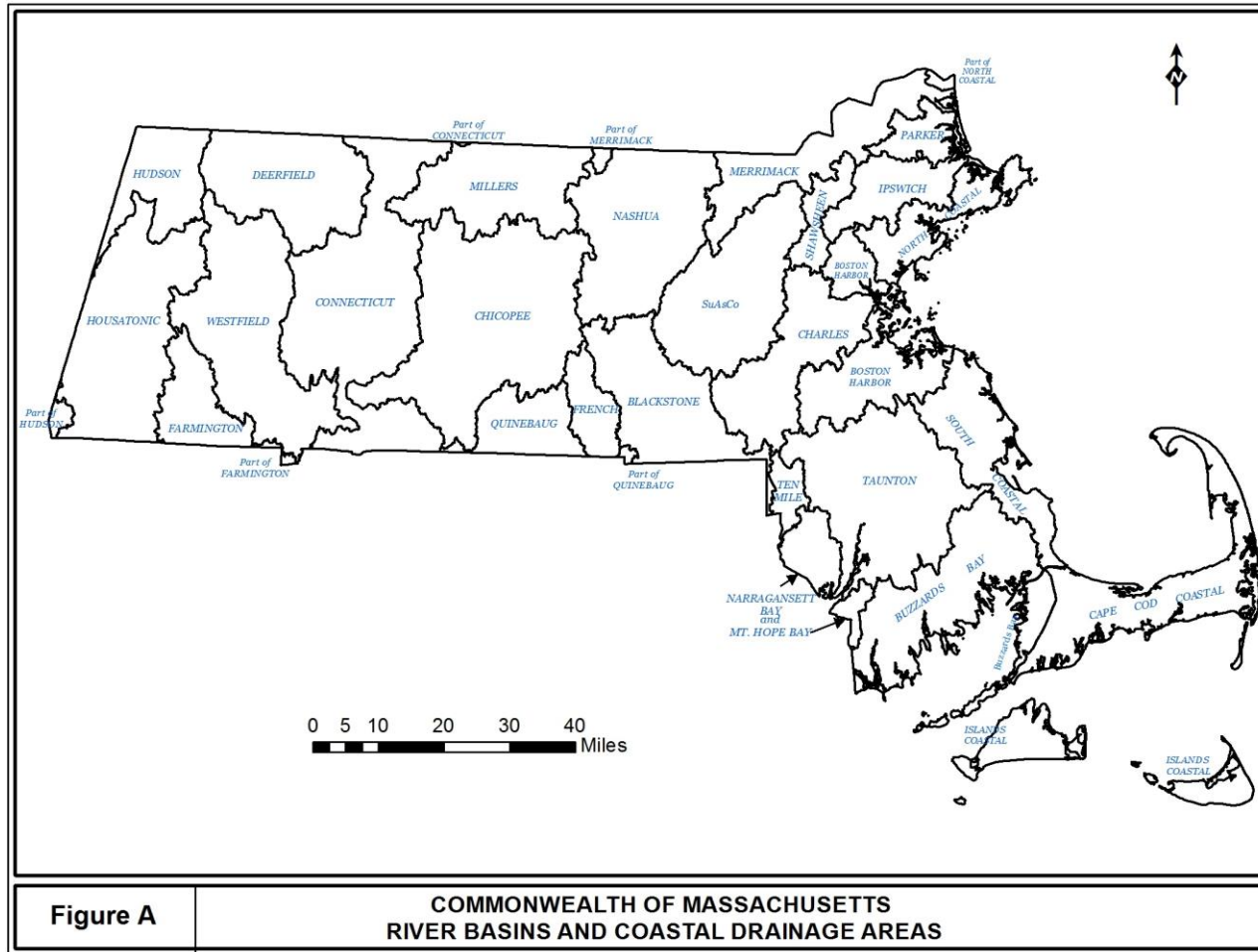
TF-188

Names in parentheses are unofficial, locally used names

*DISCLAIMER: The river basin bounds, the coastal drainage area bounds, and the surface water classes depicted on the figures are approximations and may not be complete. They are intended for general orientation purposes, and should not be relied upon for precise locations of any such bounds or classifications. See 314 CMR 4.06(5).

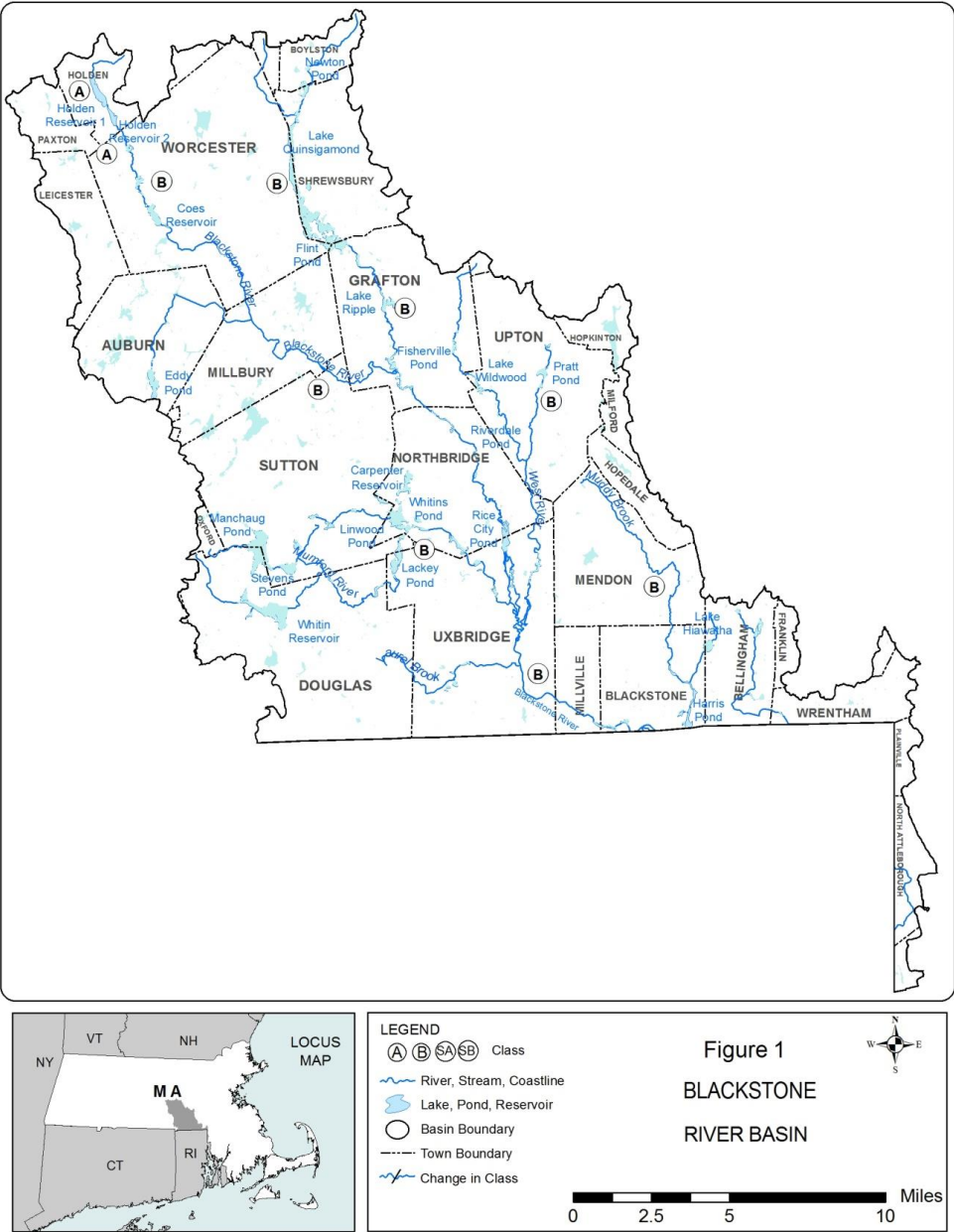
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**TABLE 11
BLACKSTONE RIVER BASIN**

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Kettle Brook	Source From outlet of Kettle Brook Reservoir #4, Paxton to dam at Reservoir #1, (flowing through and including Kettle Brook Reservoirs 1, 2 and 3) and those tributaries thereto	66.0 — 61.0 14.7 - 9.7	A	Public Water Supply PWS ORW
	From dam at Reservoir #1 to outlet of Waite Pond	61.0 — 59.3 9.7 - 8.0	B	Warm Water
	From outlet of Waite Pond to inlet of Leesville Pond	59.3 — 51.3 8.0 - 0.0	B	Warm Water
Leesville Pond	Entire pond in Auburn and Worcester		B	Warm Water
Unnamed stream	From outlet of Leesville Pond, Worcester, to inlet of Curtis Ponds, Worcester		B	Warm Water
Curtis Ponds	Entire ponds (North and South), Worcester		B	Warm Water
Middle River	From outlet of Coes Pond, Worcester, to confluence with an unnamed stream (Mill Brook)	51.3 — 48.8 2.5 - 0.0	B	Warm Water
Blackstone River	Source From confluence of Middle River and unnamed stream (Mill Brook), Worcester to outlet of Fisherville Pond	48.8 - 39.8	B	Warm Water CSO
	Outlet of Fisherville Pond to MA-RI state line	39.8 - 20.0	B	Warm Water
Unnamed stream (Mill Brook)	From outlet of Indian Lake, Worcester, to confluence with Middle River, Worcester	3.0 - 0.0	B	Warm Water CSO

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Quinsigamond River	Entire <u>length</u>	5.3 - 0.0	B	Warm Water
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TABLE 11 BLACKSTONE RIVER BASIN (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Mumford River	Source to Douglas <u>WWTP POTW discharge</u>	14.5 - 9.0	B	Warm Water High Quality Water
	<u>From Douglas WWTP POTW discharge to confluence with the Blackstone River</u>	9.0 - 0.0	B	Warm Water
West River	Source to Upton <u>WWTP POTW discharge</u>	-	B	Cold Water High Quality Water
	<u>From the Upton WWTP POTW discharge to confluence with the Blackstone River, Uxbridge</u>	8.8 - 0.0	B	Warm Water
Mill River	<u>Entire Length From the outlet of North Pond, Milford, to the Mendon/Blackstone town line</u>	11.0 - 0.0	B	Warm Water
	<u>From the Mendon/Blackstone town line to a line 1000 feet northerly of and parallel to the MA-RI state line, Blackstone</u>		B	<u>Warm Water Treated Water Supply</u>
Beaver Brook	Entire <u>length, Worcester</u>	3.0 - 0.0	B	Warm Water High Quality Water
Weasel Brook	Entire <u>length, Worcester</u>	3.0 - 0.0	B	Warm Water High Quality

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**TABLE 11
BLACKSTONE RIVER BASIN (continued)**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
				Water
Kettle Brook Reservoir Nos. 1-4	Source to outlet Entire reservoir in Leicester and Paxton and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Lynde Brook Reservoir	Source to outlet Entire reservoir in Leicester and those tributaries thereto	-	A	Public Water SupplyPWS ORW
#2 Holden Reservoir	Source to outlet Entire reservoir in Holden and those tributaries thereto	-	A	Public Water SupplyPWS ORW
#1 Holden Reservoir	Source to outlet Entire reservoir in Holden and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Wallum Lake	The northern portion of the lake in Douglas to a line 1000 feet northerly of and parallel to the MA-RI state line	-	B	Treated Water Supply
Mill River	in Blackstone		B	Treated Water Supply
All MA interstate surface waters that are public water supply in flow into Rhode Island PWSs from 1000 feet upstream of the State Line	From a line in MA which is 1000 feet upstream from and parallel to the MA-RI state line, to that state line (including, but not limited to, the relevant portions of Wallum Lake in Douglas, Mill River in Blackstone, and the entirety of Robin Hollow Pond in North Attleborough)	-	A	Public Water SupplyPWS ORW

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TABLE 14
BLACKSTONE RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Coal Mine Brook</u>	<u>Source in Worcester to inlet of Lake Quinsigamond, Worcester</u>		<u>B</u>	<u>Cold Water</u>
<u>Cold Spring Brook</u>	<u>Entire length, Uxbridge</u>	<u>entire length</u>	<u>B</u>	<u>Cold Water</u>
<u>Scott Brook</u>	<u>Source in Holden to inlet of Holden Reservoir No 1, Holden</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
<u>Warren Brook</u>	<u>Entire length, Upton²</u>	<u>entire length</u>	<u>B</u>	<u>Cold Water</u>

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of this surface water is within the Miscoe, Warren and Whitehall Watersheds Area of Critical Environmental Concern

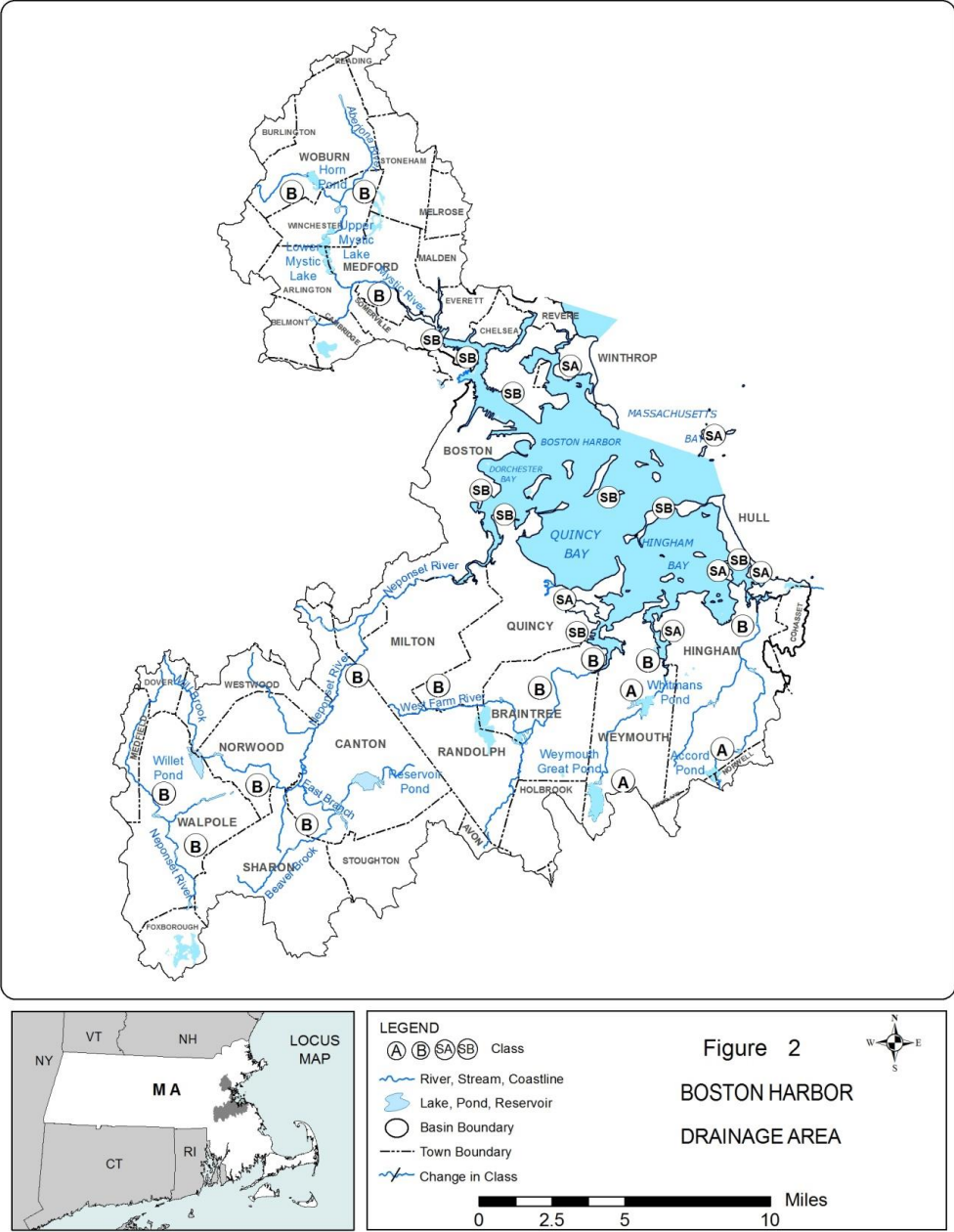
*Acronyms:

CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 152
BOSTON HARBOR DRAINAGE AREA

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Boston Harbor</u>	<u>Entire harbor, from the respective seaward boundaries of Boston Inner Harbor, and Pleasure, Dorchester, Quincy, and Hingham bays, easterly to inside a straight line drawn from the southerly tip of Deer Island to Boston Lighthouse on Little Brewster Island, then south to Point Allerton in Hull, except as denoted below</u>	-	SB	Shellfishing
<u>Pleasure Bay</u>	<u>Entire semi-enclosed bay, its seaward boundary formed by a straight line drawn from the southerly tip of Castle Island to the northerly tip of Head Island, Boston.</u>		<u>SB</u>	<u>Shellfishing</u>
<u>Boston Inner Harbor</u>	<u>Boston Inner Harbor Entire inner harbor, inclusive of the Reserved, Fort Point and Little Mystic channels, from the respective mouths of the Charles, Mystic, and Chelsea rivers, southeasterly to its seaward boundary formed by westerly inside a straight line drawn from the southern tip of Governors Island to Fort Independence, Boston, including the Charles, Mystic, Island End and Chelsea (Creek) Rivers and Reserved, Fort Point and Little Mystic Channels</u>	-	SB(CSO)	
<u>Island End River</u>	<u>Entire river, Everett/Chelsea, to confluence with the Mystic River</u>		<u>SB(CSO)</u>	

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TABLE 152
BOSTON HARBOR DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Chelsea River</u> <u>(Chelsea Creek)</u>	<u>Entire river, from the confluence of Mill Creek,</u> <u>Chelsea/Revere to its mouth at Boston Inner Harbor,</u> <u>Boston/Chelsea.</u>		<u>SB(CSO)</u>	
Dorchester Bay	<u>Entire bay, from the mouth of the Neponset River,</u> <u>Boston/Quincy, northeasterly to the bay's seaward</u> <u>boundary formed by straight lines drawn from the</u> <u>southerly tip of Head Island, Boston, to the north side</u> <u>of Thompson Island, Boston; and from the southerly</u> <u>tip of Thompson Island to Chapel Rocks, Quincy.</u>	-	SB	Shellfishing <u>CSO</u>
<u>Quincy Bay</u>	<u>The southern portion of Quincy Bay in Quincy,</u> <u>southerly of a seaward boundary formed by a straight</u> <u>line drawn from Bromfield Street near 692 Quincy</u> <u>Shore Drive (the Wallaston-Wollaston Yacht Club)</u> <u>northerly-northeast to 42° 17' 3" N, 71° 00' 1" W</u> <u>(buoy-buoy "C 1") southeasterly to Houghs Neck</u> <u>near Sea Street and Peterson Road (formerly referred</u> <u>to as the "Willows"), sometimes known as Lord's</u> <u>Point on the northerly shore of Houghs Neck in</u> <u>Quincy</u>	-	SA	Shellfishing

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TABLE 152
BOSTON HARBOR DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
	Remainder The northern portion of Quincy Bay; northeasterly from the seaward boundary of the southern portion, to a seaward boundary formed by a straight line drawn from the eastern tip of Moon Head to the northern tip of Nut Island, Quincy.	-	SB	Shellfishing
<u>Hingham Harbor</u>	Hingham Entire harbor in Hingham, southerly of the seaward boundary formed by a straight line drawn inside a line from Crows Point to Worlds End Promontory	-	SA	Shellfishing
<u>Hingham Bay</u>	Entire bay, westerly of the seaward boundaries of Hull Bay and Hingham Harbor and of the mouth of the Weir River; and northerly of the mouths of the Weymouth Fore and Weymouth Back rivers; to its northwest and seaward boundary formed by a straight line drawn from the northerly tip of Nut Island, Quincy, to Peddocks Island at the southerly point of West Head, Hull; and from the northeastern point of Peddocks Island, Hull, to Windmill Point, Hull.		<u>SB</u>	<u>Shellfishing</u>

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TABLE 152
BOSTON HARBOR DRAINAGE AREA (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Hull Bay	<u>Entire bay, its western and seaward boundary formed by straight lines drawn from Windmill Point, Hull, to Bumkin Island (Bumpkin Island), Hingham; and from the easterly point of Bumkin Island to the westerly point of Sunset Point, Hull.</u>	-	SB	Shellfishing
<u>Other coastal and marine waters</u>	<u>Other coastal and marine waters in the Boston Harbor Drainage Area</u>	-	SB	Shellfishing
Aberjona River	Source <u>in Woburn</u> to outlet <u>of</u> Mishawum Lake	<u>418.4-454.5 - 5.9</u>	B	Warm Water
<u>Aberjona River (cont.)</u>	Outlet <u>of</u> Mishawum Lake to inlet <u>of</u> Upper Mystic Lake	<u>45.4 - 9.25.9 - 0.0</u>	B	Warm Water
Upper Mystic Lake	<u>Entire lake, Winchester/Arlington/Medford</u>	<u>9.2 - 8.1</u>	B	Warm Water
Lower Mystic Lake	<u>Entire lake, Arlington/Medford</u>	<u>8.1 - 7.4</u>	B	Warm Water
Mystic River	<u>From Outlet of Lower Mystic Lake to Amelia Earhart Dam, Somerville/Everett</u>	7.4 - 2.0	B	Warm Water CSO
	<u>Amelia Earhart Dam, Somerville/Everett to confluence its mouth at Boston Inner Harbor, Chelsea/Charlestown with the Chelsea River</u>	2.0 - 0.0	SB(CSO)	Shellfishing
Malden River	Entire <u>Length, Everett/Malden/Medford</u>	1.9 - 0.0	B	Warm Water

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TABLE 152
BOSTON HARBOR DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Alewife Brook	Entire length , source in Cambridge to confluence with Mystic River, Arlington/Somerville	2.0 — 0.0	B	Warm Water CSO
<u>Little River</u>	From 150 feet upstream of the confluence with Alewife Brook, Cambridge, to the confluence with Alewife Brook, Cambridge		<u>B</u>	<u>Warm Water</u> <u>CSO</u>
Horn Pond	Entire pond Source to outlet in Woburn Warm Water		<u>B</u>	B <u>Warm Water</u>
Belle Isle Inlet	<u>Entire inlet</u> and <u>those</u> tributaries thereto ² , <u>Boston/Winthrop</u>	-	SA	Shellfishing Outstanding Resource <u>Water</u> <u>ORW</u>
North Reservoir and Middle Reservoir	<u>Entire reservoir Source</u> to outlet in Winchester Stoneham and Medford and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
<u>Middle Reservoir</u>	<u>Entire reservoir to outlet in Medford and those tributaries thereto</u>		<u>A</u>	<u>PWS</u> <u>ORW</u>
South Reservoir	<u>Entire reservoir Source</u> to outlet in Medford and <u>those</u> tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Fresh Pond	<u>Entire pond Source</u> to outlet in Cambridge and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>

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TABLE 152 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Neponset Reservoir	<u>Entire reservoir to Upstream of dam at outlet of into Crackrock Pond, Foxborough</u>	<u>Above 29.5</u>	B	Warm Water High Quality Water
Neponset River	<u>Source-From outlet of Neponset Reservoir, Foxborough, to confluence with Mother Brook, Boston (inclusive of Crackrock Pond)</u>	<u>29.5 - 7.9</u>	B	Warm Water
	<u>From confluence with Mother Brook, Boston, to Milton Lower Falls Dam (Neponset River Baker Chocolate Dam, NAT ID: MA0193), Milton/Boston</u>	7.9 - 4.2	B	Warm Water
	<u>Tidal pPortion, from Milton Lower Falls Dam (Neponset River Baker Chocolate Dam, NAT ID: MA0193), Milton/Boston to its mouth at Dorchester Bay, Boston/Quincy</u>	4.2 - 0.0	SB	Shellfishing
Weymouth Fore River	<u>Entire river to its mouth at Hingham Bay formed by a straight line between Lower Neck, Weymouth and Wall Street on Houghs Neck, Quincy.</u>	-	SB ² , B ^{**}	Shellfishing [†] Warm Water [†]
Weymouth Back River	<u>From the base of the fish ladder north of Commercial Street, Weymouth, to its mouth at Hingham Bay formed by a straight line between Lower Neck, Weymouth and Wompatuck Road, Hingham.³</u>	-	SA ² , B ^{**}	Shellfishing [†] Warm Water [†] <u>Outstanding Resource Water^{ORW}</u>

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TABLE 152
BOSTON HARBOR DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [†]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Weir River	<u>From confluence of Crooked Meadow River and Fulling Mill Brook to its mouth at Hingham Bay⁴ formed by a straight line from the northerly point of Worlds End, Hingham, to Nantasket Road near Beech Avenue, Hull.</u>	-	SA [*] , B ^{**}	Shellfishing [†] Outstanding Resource Water <u>ORW</u>
Fresh River	<u>Entire river in Weymouth/Hingham³, to confluence with the Weymouth Back River</u>	-	<u>SA, B^{**}</u>	Warm Water [†]
Cranberry Brook	<u>From the outlet of Cranberry Pond, Braintree, to confluence with the Cochato River, Braintree⁵</u>	-	B	Outstanding Resource Water <u>ORW</u>
Cranberry Pond	<u>Entire pond Source to outlet in Braintree⁵</u>	-	B	Outstanding Resource Water <u>ORW</u>
Bouve Pond and Brewer Pond	<u>Entire pond in Hingham³</u>	-	B	Warm Water Outstanding Resource Water <u>ORW</u>
<u>Brewer Pond</u>	<u>Entire pond in Hingham³</u>		<u>B</u>	<u>Warm Water</u> <u>ORW</u>
Straits Pond	<u>Entire pond in Hull and Cohasset⁴</u>	-	B	Warm Water Outstanding Resource Water <u>ORW</u>
Great Pond	<u>Entire pond Source to outlet in Braintree and those tributaries thereto</u>	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>

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TABLE 152 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS*</u>
Upper Reservoir of Great Pond	<u>Entire reservoir</u> Source to outlet in Braintree and <u>those</u> tributaries thereto	-	A	Public Water Supply PWS ORW
Whitmans Pond	<u>Entire pond</u> Source to outlet in Weymouth and <u>those</u> tributaries thereto	-	A	Public Water Supply PWS ORW
Richardi Reservoir	<u>Entire reservoir</u> Source to outlet in Braintree and <u>those</u> tributaries thereto	-	A	Public Water Supply PWS ORW
Weymouth Great Pond (Great Pond)	Source <u>Entire pond</u> to outlet in Weymouth and <u>those</u> tributaries thereto	-	A	Public Water Supply PWS ORW
Accord Pond	Source <u>Entire pond</u> to outlet in Hingham and <u>those</u> tributaries thereto	-	A	Public Water Supply PWS ORW
Accord Brook	<u>From</u> Outlet of Accord Pond, <u>Hingham,</u> to water supply intake, <u>Hingham,</u> and <u>those</u> tributaries thereto	-	A	Public Water Supply PWS ORW

¹ Names cited in parentheses are unofficial, locally-used names

² Note that all or a portion of these surface waters are within the Rumney Marshes Area of Critical Environmental Concern (ACEC)

³ Note that all or a portion of these surface waters are within the Weymouth Back River ACEC

⁴ Note that all or a portion of these surface waters are within the Weir River ACEC

⁵ Note that all or a portion of these surface waters are within the Cranberry Brook Watershed ACEC

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*Acronyms:

CSO = Combined Sewer Overflow

ORW = Outstanding Resource Water

*Acronyms (cont.):

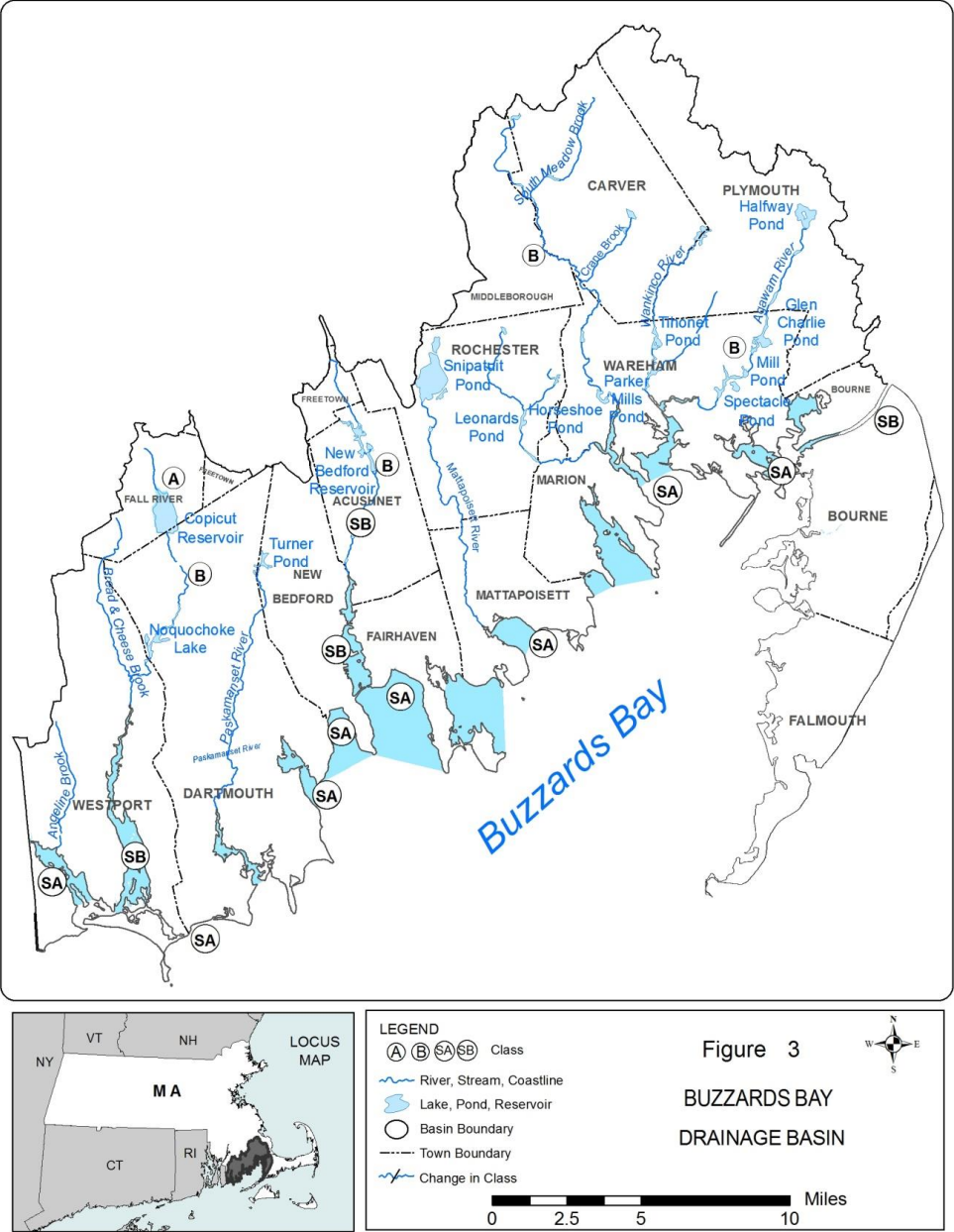
PWS = Public Water Supply

**Coastal and marine waters Class SA or SB as designated; fresh waters Class B

†Shellfishing applies to coastal and marine waters only; warm water applies to fresh waters only

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 253
BUZZARDS BAY COASTAL DRAINAGE AREA

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Cape Cod Canal,	The portion of the canal in Sandwich	-	SB	Shellfishing
Cape Cod Canal,	The portion of the canal in Bourne	-	SB	Shellfishing
Buttermilk Bay	Entire bay in Bourne/Plymouth		SA	Shellfishing
Onset Bay	Entire bay in Wareham	-	SA	Shellfishing
Pocasset River ²		-	SA	Shellfishing
				Outstanding Resource Water ORW
Agawam River	Source to Wareham WWTF POTW discharge	Above 2.2	B	Warm Water High Quality Water
	From Wareham WWTF POTW discharge to confluence with the Wareham River	2.2 - 0.0	SB	Shellfishing
Wareham River	Entire length, from confluence of Wankinko and Agawam Rivers at Route 6 bridge, Wareham to confluence with Buzzards Bay, Wareham (inclusive of Marks Cove).	-	SA	Shellfishing High Quality Water
Wewantic River	Source to inlet outlet of Horseshoe Pond	Above 4.4	B	Warm Water High Quality Water
	From the Outlet of Horseshoe Pond to confluence with Buzzards Bay	4.4 - 0.0	SA	Shellfishing High Quality Water

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TABLE 253
BUZZARDS BAY COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Sippican River	Source to County Road, Marion/Wareham	Above 2.1	B	Warm Water High Quality Water
	From County Road, Marion/Wareham to confluence with the Wewantic River	2.1 - 0.0	SA	Shellfishing High Quality Water
Sippican Harbor	Entire harbor	-	SA	Shellfishing
Aucot Cove	Entire cove	-	SA	Shellfishing
Mattapoisett Harbor	Entire harbor	-	SA	Shellfishing
Nasketucket Bay	Entire bay	-	SA	Shellfishing
New Bedford Reservoir	Source to outlet Entire reservoir	Above 8.2	B	Warm Water High Quality Water
Acushnet River	From Outlet of New Bedford Reservoir to Tarkiln Hill Road/Main Street, New Bedford/Acushnet	8.2 - 4.57.0 - 3.3	B	Warm Water High Quality Water
	From Tarkiln Hill Road/Main Street, New Bedford/Acushnet to Rt. 6, New Bedford/ Fairhaven	4.5 - 1.23.3 - 0.0	SB	Shellfishing CSO
Inner New Bedford Harbor		1.2 - 0.0	SB	Shellfishing CSO
Outer New Bedford Harbor	Entire harbor	-	SA	Shellfishing

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TABLE 253
BUZZARDS BAY COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Clarks Cove [‡]	New Bedford/Dartmouth	-	SA	Shellfishing CSO
Apponagansett Bay [‡]	New Bedford/Dartmouth		SA	Shellfishing
Slocums River	<u>From confluence with the Paskamanset River, Dartmouth, to confluence with Buzzards Bay, Dartmouth</u>	-	SA	Shellfishing High Quality Water
Westport River, East Branch	<u>From the Outlet of Noquochoke Lake to Old County Road, Westport</u>	12.0 - 10.0	B	Warm Water High Quality Water
	<u>From Old County Road, Westport to confluence with Westport Harbor and Horseneck Channel</u>	10.0 - 0.0	SB	Shellfishing High Quality Water
Westport River, West Branch	Entire Length length	-	SA	Shellfishing High Quality Water
Freeman Pond, Mill Pond, Shop Pond and Upper Pond	<u>Entire pond</u> in Bourne ²	-	<u>SA, B**</u>	Warm Water [†] Outstanding Resource Water ORW
<u>Mill Pond</u>	<u>Entire pond</u> in Bourne ²		<u>SA, B**</u>	Warm Water [†] ORW
<u>Shop Pond</u>	<u>Entire pond</u> in Bourne ²		<u>SA, B**</u>	Warm Water [†] ORW

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TABLE 253
BUZZARDS BAY COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Upper Pond</u>	<u>Entire pond in Bourne</u> ²		<u>SA, B**</u>	<u>Warm Water</u> † <u>ORW</u>
Copicut Reservoir	Source <u>Entire reservoir</u> to outlet in Fall River and Dartmouth and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Sand Pond Reservoir	<u>Entire reservoir</u> Source to outlet in Wareham and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Pocasset River Area of Critical Environmental Concern

*Acronyms:

CSO = Combined Sewer Overflow

ORW = Outstanding Resource Water

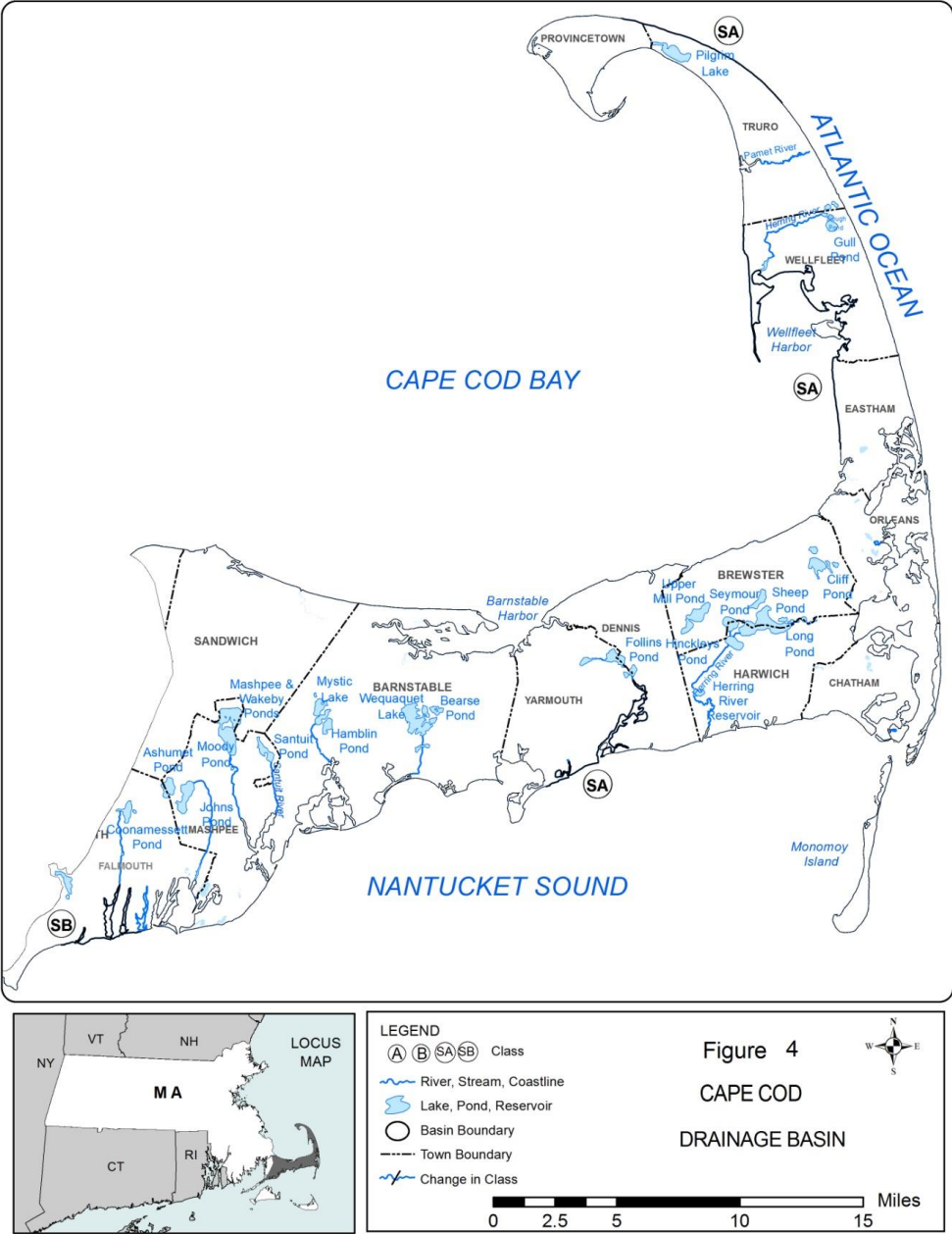
PWS = Public Water Supply

**Coastal and Marine waters Class SA; fresh waters Class B

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

†Warm water applies to fresh waters only

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Scorton Harbor	<u>Entire harbor</u>	-	SA	Shellfishing
Scorton Creek	<u>Source in Sandwich to confluence with Scorton Harbor and those tributaries thereto</u>	-	SA, B**	Shellfishing [†]
Barnstable Harbor	Entire area excluding Freezer Point and the developed marina ² <u>Water</u>	-	SA	Shellfishing <u>Outstanding Resource-ORW</u>
Broad Sound	<u>Entire sound</u>	-	SA	Shellfishing
Bass Creek, Brickyard Creek, Mill Creek and Wells Creek	<u>Entire creek</u>	-	SA	Shellfishing
<u>Brickyard Creek</u>	<u>Entire creek</u>		SA, B**	Shellfishing [†]
<u>Mill Creek</u>	<u>Entire creek</u>		SA	Shellfishing
<u>Wells Creek</u>	<u>Entire creek</u>		SA	Shellfishing
Namskaket Creek, Little Namskaket Creek, Rock Harbor Creek, Boat Meadow River and Herring River	<u>Entire creek</u> ³	-	SA, B**	Shellfishing [†] <u>Outstanding Resource Water-ORW</u>
<u>Little Namskaket Creek</u>	<u>Entire creek</u> ³		SA, B**	Shellfishing [†] <u>ORW</u>

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Rock Harbor Creek	Entire creek³		SA, B**	Shellfishing† ORW
Boat Meadow River	Entire river³		SA, B**	Shellfishing ORW

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Herring River</u>	<u>Entire river</u> ³		<u>SA, B**</u>	<u>Shellfishing</u> [†] <u>ORW</u>
Pleasant Bay	<u>Entire bay</u> and <u>those</u> tributaries thereto ⁴	-	<u>SA, B**</u>	<u>Shellfishing</u> [†] <u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>
Ryder Cove, Bassing Harbor, Frost Fish Creek, and Muddy Creek	in Chatham Portion <u>of the surface water within the</u> Pleasant Bay ACEC, <u>Chatham</u>		<u>SA</u>	<u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>
<u>Bassing Harbor</u>	<u>Portion of the surface water within the Pleasant Bay</u> <u>ACEC, Chatham</u>		<u>SA</u>	<u>ORW</u>
<u>Frost Fish Creek</u>	<u>Portion of the surface water within the Pleasant Bay</u> <u>ACEC, Chatham</u>		<u>SA, B**</u>	<u>ORW</u>
<u>Muddy Creek</u>	<u>Portion of the surface water within the Pleasant Bay</u> <u>ACEC, Chatham</u>		<u>SA</u>	<u>ORW</u>
Round Cove in Harwich	Portion <u>of the surface water within the</u> Pleasant Bay ACEC, <u>Harwich</u>		<u>SA</u>	<u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Namequoit River, The River, The Horseshoe, the Narrows, Frostfish Cove, Hog Island Creek, and Broad Creek in Orleans	Portion <u>of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>Outstanding Resource Water</u> <u>ORW</u>
<u>The River</u>	<u>Portion of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>ORW</u>
<u>The Horseshoe</u>	<u>Portion of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>ORW</u>
<u>The Narrows</u>	<u>Portion of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>ORW</u>
<u>Frostfish Cove</u>	<u>Portion of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>ORW</u>
<u>Hog Island Creek</u>	<u>Portion of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>ORW</u>
<u>Broad Creek</u>	<u>Portion of the surface water within the Pleasant Bay ACEC, Orleans</u>		<u>SA</u>	<u>ORW</u>
Waquoit Bay	<u>Entire bay and those</u> tributaries thereto [§]	-	<u>SA, B**</u>	<u>Shellfishing</u> [†] <u>Outstanding Resource Water</u> <u>ORW</u>

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Childs River; Quashnet River, and Red Brook	Portion <u>of the surface water within the Waquoit Bay</u> ACEC, <u>Falmouth</u>		<u>SA, B**</u>	Outstanding Resource Water <u>ORW</u>
<u>Quashnet River</u>	<u>Portion of the surface water within the Waquoit Bay</u> <u>ACEC, Falmouth</u>		<u>SA, B**</u>	<u>ORW</u>
<u>Red Brook</u>	<u>Portion of the surface water within the Waquoit Bay</u> <u>ACEC, Mashpee</u>		<u>SA, B**</u>	<u>ORW</u>
Falmouth Inner Harbor;	Falmouth	-	SB	Shellfishing
Herring Pond (<u>Coles Pond</u>) and Cedar Pond	<u>Entire pond in Eastham</u> ³	-	<u>SA, B**</u>	<u>Warm Water</u> [†] Outstanding Resource Water <u>ORW</u>
<u>Cedar Pond</u>	<u>Entire pond in Orleans</u> ³		<u>SA, B**</u>	<u>Warm Water</u> [†] <u>ORW</u>
Stillwater Pond; Lovers Lake, Mill Pond, Ministers Pond and Crows Pond	<u>Entire pond</u> in Chatham ⁴	-	B*	<u>Warm Water</u> Outstanding Resource Water <u>ORW</u>
<u>Lovers Lake</u>	<u>Entire lake in Chatham</u> ⁴		<u>B</u>	<u>Warm Water</u> <u>ORW</u>

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Mill Pond</u>	<u>Entire pond in Chatham/East Harwich</u> ⁴		<u>B</u>	<u>Warm Water</u> <u>ORW</u>
<u>Ministers Pond</u>	<u>Entire pond in Chatham</u> ⁴		<u>B</u>	<u>Warm Water</u> <u>ORW</u>
<u>Crows Pond</u>	<u>Entire pond in Chatham</u> ⁴		<u>B*SA</u>	<u>Warm Water</u> <u>ORW</u>
<u>Pilgrim Lake (Dean Sparrows Pond), Quanset Pond, Crystal Lake, Paw Wah Pond, Uncle Seths Pond, Sarahs Pond, Areys Pond, Gould Pond, Kescago Gansett Pond and Meeting House Pond</u>	<u>Entire lake in Orleans</u> ⁴	-	<u>B*</u>	<u>Warm Water</u> <u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>
<u>Quanset Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>SAB*</u>	<u>Warm Water</u> <u>ORW</u>
<u>Crystal Lake (Fresh Pond)</u>	<u>Entire lake in Orleans</u> ⁴		<u>B*</u>	<u>Warm Water</u> <u>ORW</u>
<u>Paw Wah Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>SAB*</u>	<u>Warm Water</u> <u>ORW</u>
<u>Uncle Seths Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>B*</u>	<u>Warm Water</u> <u>ORW</u>

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Sarabs Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>B</u> *	<u>Warm Water</u> <u>ORW</u>
<u>Areys Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>B</u> *SA	<u>Warm Water</u> <u>ORW</u>
<u>Gould Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>B</u> *	<u>Warm Water</u> <u>ORW</u>
<u>Kescayo Gansett Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>B</u> *SA	<u>Warm Water</u> <u>ORW</u>
<u>Meeting House Pond</u>	<u>Entire pond in Orleans</u> ⁴		<u>B</u> *SA	<u>Warm Water</u> <u>ORW</u>
<u>Bourne Pond, Bog Pond, Caleb Pond and Hamblin Pond</u>	<u>Entire pond</u> in Falmouth ⁵	-	<u>B</u> *	<u>Warm Water</u> <u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>
<u>Bog Pond</u>	<u>Entire pond in Falmouth</u> ⁵		<u>SA, B</u> **	<u>Warm Water</u> [†] <u>ORW</u>
<u>Caleb Pond</u>	<u>Entire pond in Falmouth</u> ⁵		<u>B</u> *SA	<u>Warm Water</u> <u>ORW</u>
<u>Hamblin Pond</u>	<u>Entire pond in Falmouth/Mashpee</u> ⁵		<u>B</u> *SA	<u>Warm Water</u> <u>ORW</u>

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TABLE 264
CAPE COD COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Flat Pond, Jehu Pond, Jim Pond, Lily Pond (Little Flat Pond), Sagelot Pond, and Witch Pond	<u>Entire pond</u> in Mashpee ⁵	-	<u>SA, B**</u>	<u>Warm Water</u> [†] <u>Outstanding Resource</u> <u>Water</u> <u>ORW</u>
<u>Jehu Pond</u>	<u>Entire pond</u> in Mashpee ⁵		<u>B*SA</u>	<u>Warm Water</u> <u>ORW</u>
<u>Jim Pond</u>	<u>Entire pond</u> in Mashpee ⁵		<u>B*</u>	<u>Warm Water</u> <u>ORW</u>
<u>Lily Pond (Little Flat Pond)</u>	<u>Entire pond</u> in Mashpee ⁵		<u>SA, B**</u>	<u>Warm Water</u> [†] <u>ORW</u>
<u>Sage Lot Pond</u>	<u>Entire pond</u> in Mashpee ⁵		<u>B*SA</u>	<u>Warm Water</u> <u>ORW</u>
<u>Witch Pond</u>	<u>Entire pond</u> in Mashpee ⁵		<u>B*</u>	<u>Warm Water</u> <u>ORW</u>
Long Pond (Long Pond Reservoir)	<u>Entire pond</u> Source to its to outlet in Falmouth and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
<u>Atlantic Ocean and other surface waters within/bordering the Cape Cod National Seashore</u>	Waters in within and adjacent ^{**} <u>(within 1,000 feet seaward of mean low water)</u> to the Cape Cod National Seashore	-	<u>SA, B**</u>	<u>Shellfishing</u> [†] <u>Outstanding Resource</u> <u>Water</u> <u>ORW</u>

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Sandy Neck Barrier Beach System ACEC

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³[Note that all or a portion of these surface waters are within the Inner Cape Cod Bay ACEC](#)

⁴[Note that all or a portion of these surface waters are within the Pleasant Bay ACEC](#)

⁵[Note that all or a portion of these surface waters are within the Waquoit Bay ACEC](#)

*Acronyms:

[ACEC = Area of Critical Environmental Concern](#)

[ORW = Outstanding Resource Water](#)

[PWS = Public Water Supply](#)

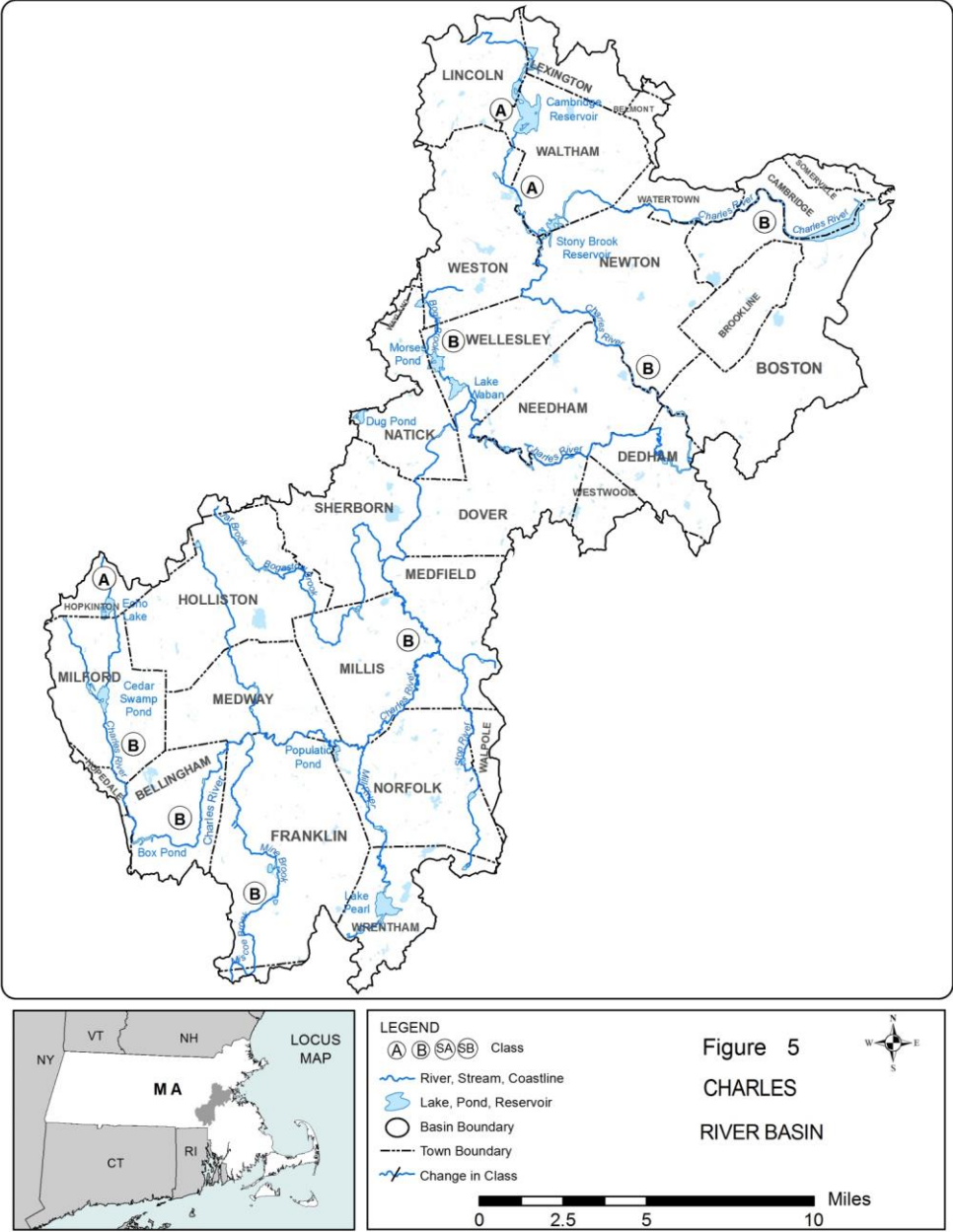
~~**Coastal and m~~^{**}[Marine waters Class SA;](#) fresh waters Class B

~~**Area within 1,000 feet seaward of mean low water~~

[‡] [Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth \(assigned a value of "0"\). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.](#)

[†][Shellfishing applies to marine and coastal waters only; warm water applies to fresh waters only.](#)

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**TABLE 516
CHARLES RIVER BASIN**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Charles River	Source to Dilla Street, <u>Milford</u> and <u>those</u> tributaries thereto	78.9 - 76.5 <u>78.2 - 75.8</u>	A	Public Water Supply <u>PWS ORW</u>
	<u>From</u> Dilla Street, <u>Milford</u> to Milford WWTF <u>POTW discharge</u>	76.5 - 73.4 <u>75.8 - 72.7</u>	B	Aquatic Life
	<u>From</u> Milford WWTF <u>POTW discharge</u> to outlet of Populatic Pond, <u>Medway</u>	73.4 - 58.9 <u>72.7 - 58.2</u>	B	Warm Water
	<u>From</u> Outlet of <u>Outlet of</u> Populatic Pond, <u>Medway</u> , to South Natick Dam	58.9 - 41.0 <u>58.2 - 40.3</u>	B	Warm Water
	<u>From</u> South Natick Dam to Watertown Dam	41.0 - 9.8 <u>40.3 - 9.1</u>	B	Warm Water
	<u>From</u> Watertown Dam to BU Bridge	9.8 - 3.7 <u>9.1 - 3.0</u>	B	Warm Water CSO
<u>Charles Basin</u>	<u>From</u> BU Bridge to <u>its mouth at the</u> New Charles River Dam <u>(inclusive of Charles River Basin)</u>	3.7 - 0.7 <u>3.0 - 0.0</u>	B	Warm Water CSO
Muddy River	Entire l <u>length</u>	2.7 - 0.0	B(CSO)	Warm Water
Mine Brook	Source to former Franklin <u>STP-POTW discharge</u>	7.2 - 4.0	B	Warm Water High Quality Water

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TABLE 165
CHARLES RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Mine Brook (cont.)	From former Franklin STP POTW discharge to confluence <u>with the Charles River, Franklin</u>	4.0 - 0.0	B	Warm Water
Unnamed tributary (Sugar Brook)	Entire Length <u>Source in Millis to confluence with the Charles River, Millis</u>	-	B	Warm Water High Quality Water
Stony Brook Reservoir (Turtle Pond)	Source <u>Entire reservoir</u> to outlet in Weston/Waltham and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Cambridge Reservoir (Hobbs Brook <u>Upper and Lower Reservoirs</u>)	Source <u>Entire reservoir</u> to outlet in Waltham and those tributaries thereto <u>(this reservoir is a "feeder" to Fresh Pond, Cambridge)</u>	-	A	Public Water Supply <u>PWS ORW</u>
Sandy Pond (Flint's Pond)	Source <u>Entire pond</u> to outlet in Lincoln and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Echo Lake	Entire lake <u>Source</u> to outlet in Hopkinton and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Louisa Lake	Entire lake to outlet in Milford and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
<u>Shepards Brook</u>	<u>Source in Franklin to confluence with Charles River,</u>		<u>B</u>	<u>Cold Water</u>

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TABLE 465
CHARLES RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
	<u>Franklin</u>			

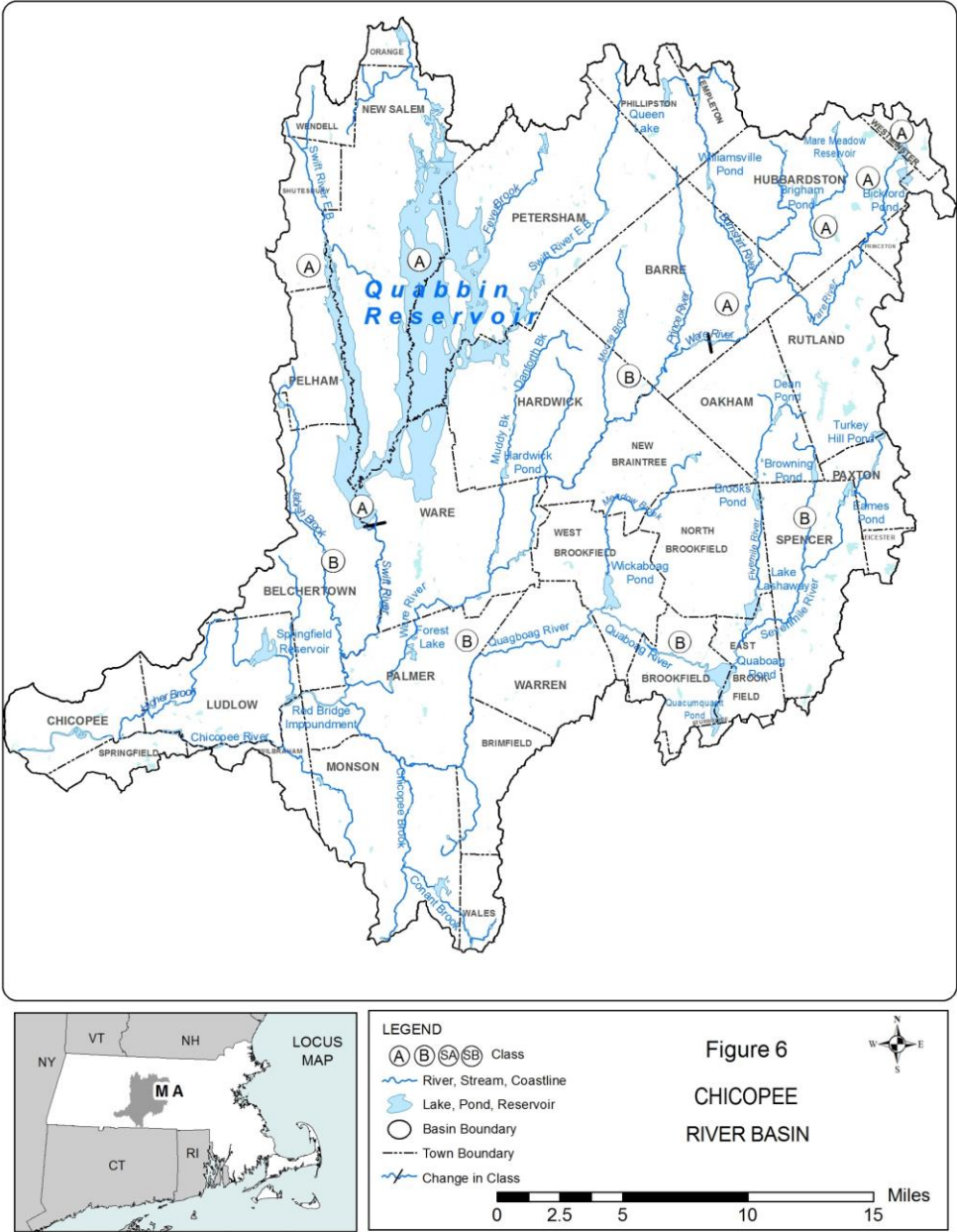
¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 86
CHICOPEE RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ware River	Source to MDC intake and <u>those</u> tributaries thereto	34.0 - 29.1	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
	<u>From</u> MDC intake to dam at South Barre	29.1 - 27.3	B	Cold Water High Quality Water
	<u>From Dam-dam</u> at South Barre to confluence with Quaboag River	27.3 - 0.0	B	Warm Water <u>CSO</u>
Prince River	<u>Entire Length</u> <u>Source in Barre to confluence with the Ware River, Barre</u>	<u>26.4 + 8.4</u> <u>— 0.0</u>	B	Cold Water High Quality Water
<u>Swift River</u>	<u>Upstream of Winsor Dam and tributaries thereto</u>	<u>0.8 +</u> <u>Above 9.8</u>	<u>A</u>	<u>Public Water Supply</u>
Swift River	<u>From Winsor Dam, Ware/Belchertown, to confluence with Ware River, Palmer Railroad Bridge Crossing, Bondsville (Palmer)</u>	9.8 - <u>5.90.0</u>	B	Cold Water
	<u>Railroad Bridge Crossing, Bondsville to confluence with Ware River</u>	<u>5.9 — 0.0</u>	<u>B</u>	<u>Cold Water, CSO</u>
Sevenmile River	Source to confluence with Cranberry River	8.6 - 2.4	B	Warm Water High Quality Water

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	<u>From confluence with</u> Cranberry River to confluence with East Brookfield River	2.4 - 0.0	B	Warm Water
East Brookfield River	Entire <u>length</u> , <u>East Brookfield</u>	2.2 - 0.0	B	Warm Water
Quaboag River	Source to Rt. 67	24.9 - 19.2	B	Warm Water
	Rt. 67 to Warren <u>WWTF POTW discharge</u>	19.2 - 13.1	B	Warm Water
TABLE 86 CHICOPEE RIVER BASIN (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Quaboag River (cont.)	<u>From</u> Warren <u>WWTF POTW discharge</u> to confluence with Ware River	13.1 - 0.0	B	Warm Water <u>CSO</u>
Forget-Me-Not Brook Forget Me Not and Dunn Brook	Source to North Brookfield <u>WWTF POTW discharge</u>	25.0 + 4.9 -3.3	B	Cold Water High Quality Water
	<u>From</u> North Brookfield <u>WWTF POTW discharge</u> to confluence with Quaboag River <u>Dunn Brook</u>	25.0 + 3.3 -0.0	B	Warm Water
<u>Dunn Brook</u>	<u>From confluence with Forget-Me-Not Brook to confluence with the Quaboag River</u>	<u>2.4 - 0.0</u>	<u>B</u>	<u>Warm Water</u>
Chicopee Brook	Entire <u>length</u> , <u>Monson</u>	4.5 + 7.0 -0.0	B	Cold Water
Chicopee River	Confluence of Ware and Quaboag Rivers to confluence with the Connecticut River	17.9 - 0.0	B	Warm Water CSO

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▲ Lake Mattawa (North Pond Brook Reservoir)	Source <u>Entire lake</u> to outlet in Orange and <u>those</u> tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Allen Hill Reservoir (Barre Town Reservoir)	Source <u>Entire reservoir</u> to outlet in Barre and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Ludlow Reservoir (Springfield Reservoir)	Source <u>Entire reservoir</u> to outlet in Ludlow and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>

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TABLE 86
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
▲ Doane Pond	Source <u>Entire pond</u> to outlet in North Brookfield and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Horse Pond (North Pond)	<u>Entire pond</u> and <u>those</u> tributaries thereto		A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Palmer Reservoir (Graves Brook Upper Reservoir)	Source <u>Entire reservoir</u> to outlet in Palmer and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>

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TABLE 86
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Shaw Pond	Source <u>Entire pond</u> to outlet in Leicester and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Mare Meadow Reservoir	Source <u>Entire reservoir</u> to outlet in Hubbardston and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Bickford Pond	Source <u>Entire pond</u> to outlet in Hubbardston and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Palmer Reservoir (Unnamed Reservoir, Graves Brook Lower Reservoir, Palmer Lower Reservoir)	Entire r <u>Reservoir</u> to outlet in Palmer and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Quabbin Reservoir	Entire r <u>Reservoir</u> to outlet in Ware and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
<u>Bradish Brook</u>	<u>Source in West Brookfield to inlet of Wickaboag Pond, West Brookfield</u>		<u>B</u>	<u>Cold Water</u>
<u>Cadwell Brook</u>	<u>Source in Wilbraham to confluence with Twelvemile Brook, Wilbraham</u>		<u>B</u>	<u>Cold Water</u>

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TABLE 86
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Cadwell Creek	Source in Pelham to inlet of Quabbin Reservoir, Belchertown		A	Cold Water PWS ORW
Camel Brook	Source in Shutesbury to confluence with West Branch Swift River, Shutesbury		A	Cold Water PWS ORW
Cobb Brook	Source in Shutesbury to inlet of Quabbin Reservoir, Shutesbury		A	Cold Water PWS ORW
Pinnacle Creek	Source in Monson to confluence with Twelvemile Brook, Monson		B	Cold Water
Popple Camp Brook	Source in Phillipston to confluence with East Branch Swift River, Phillipston		A	Cold Water PWS ORW
Rocky Run	Source in Shutesbury to confluence with West Branch Swift River, Shutesbury		A	Cold Water PWS ORW
Smith Brook	Source in Barre to confluence with Prince River, Barre		B	Cold Water
Turkey Brook	Source in Brimfield to confluence with Penny Brook, Brimfield		B	Cold Water

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TABLE 86
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Underhill Brook</u>	<u>Source in New Salem to inlet of Quabbin Reservoir, New Salem</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>

¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

CSO = Combined Sewer Overflow

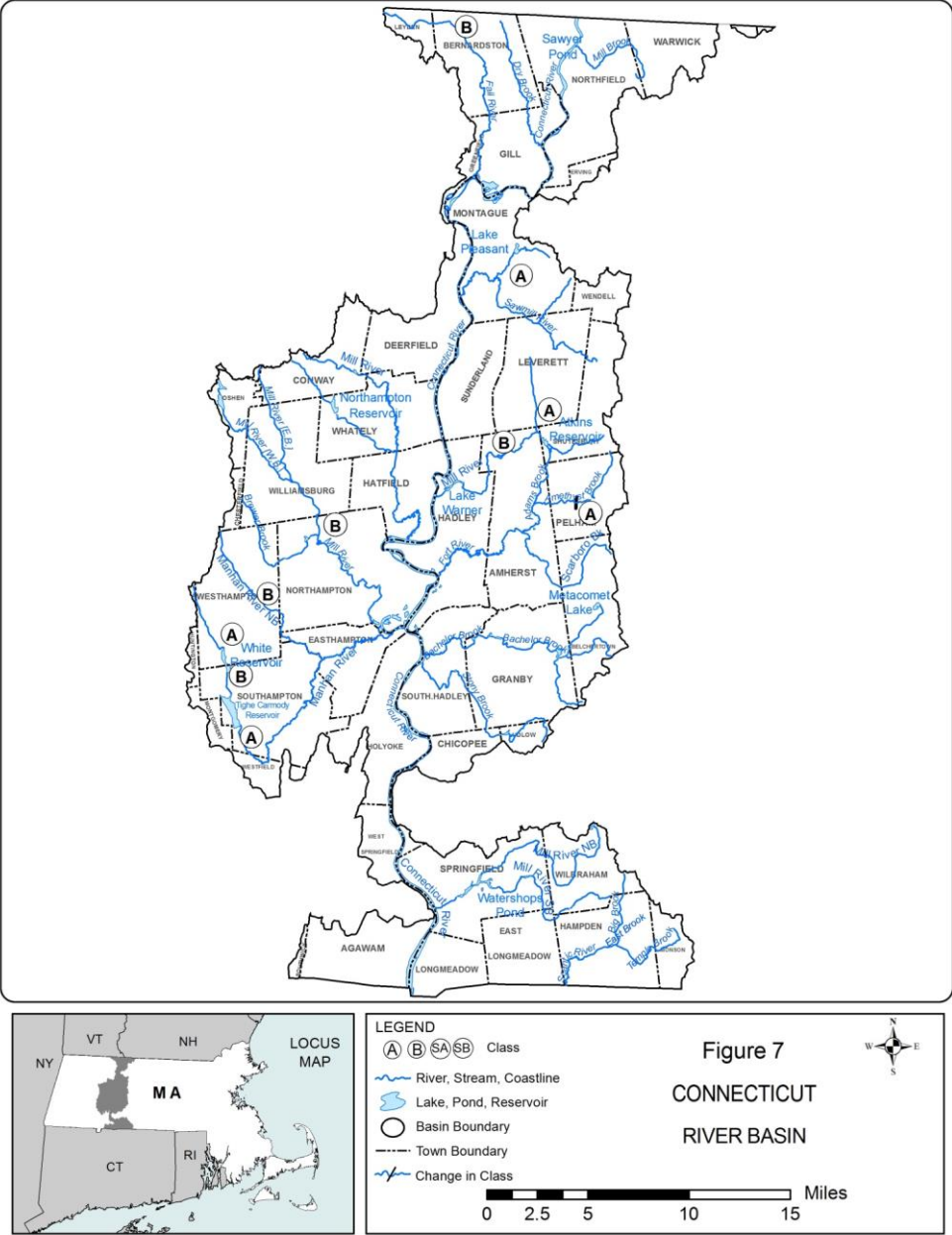
MDC = Massachusetts District Commission

ORW = Outstanding Resource Water

PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 76
CONNECTICUT RIVER BASIN

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Connecticut River	From MA-NH-VT New Hampshire, Vermont, Massachusetts state line to Turner's Falls Dam	138.2 - 123.4	B	Warm Water
	From Turner's Falls Dam to Holyoke Dam	123.4 - 85.7	B	Warm Water CSO
	Holyoke Dam to MA-CT <u>state line</u> , Longmeadow/Agawam	85.7 - 69.8	B	Warm Water CSO
Bachelor Brook, Weston Brook and Lampson Brook	From the Belchertown School <u>WWTP</u> <u>POTW discharge</u> to confluence with the Weston Brook Connecticut River	42.4 - 0.1 <u>1.1 - 0.0</u>	B	Warm Water
<u>Weston Brook</u>	<u>From confluence with Lampson Brook to inlet of Forge Pond (through which Bachelor Brook flows)</u>	<u>1.4 - 0.0</u>	<u>B</u>	<u>Warm Water</u>
<u>Bachelor Brook</u>	<u>From the inlet of Weston Brook to Forge Pond (through which Bachelor Brook flows) to the confluence with the Connecticut River</u>	<u>11.3 - 0.0</u>	<u>B</u>	<u>Warm Water</u>
Atkins Reservoir	Source <u>Entire reservoir</u> to outlet in Shutesbury and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
<u>Unnamed reservoir (Amethyst Brook, Hawley/Hill Intake)</u> <u>PWS</u>	<u>Entire reservoir</u> to outlet in Pelham and tributaries thereto		A	Public Water Supply <u>PWS ORW</u>
Hawley Reservoir	Source <u>Entire reservoir</u> to outlet in Pelham and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
▲ Hill Reservoir	Source Entire reservoir to outlet in Pelham and those tributaries thereto	-	A	Public Water SupplyPWS ORW
▲ Unnamed Reservoir (Running Gutter Brook Reservoir, Hatfield Reservoir)	Source Entire reservoir to outlet in Hatfield and those tributaries thereto	-	A	Public Water SupplyPWS ORW
▲ White Reservoir	Source Entire reservoir to outlet in Southampton and those tributaries thereto	-	A	Public Water SupplyPWS ORW
▲ Tighe Carmody Reservoir (Manhan Reservoir)	Source Entire reservoir to outlet in Southampton and those tributaries thereto	-	A	Public Water SupplyPWS ORW
▲ Whiting Street Reservoir	Source Entire reservoir to outlet in Holyoke and those tributaries thereto	-	A	Public Water SupplyPWS ORW
▲ Green Pond	Source Entire pond to outlet in Montague and those tributaries thereto	-	A	Public Water SupplyPWS ORW

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
▲ Lake Pleasant	<u>Source-Entire lake</u> to outlet in Montague and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Roberts Meadow Reservoir	<u>Source-Entire reservoir</u> to outlet in Northampton and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ <u>Mt. ountain</u> Street Reservoir	<u>Source-Entire reservoir</u> to outlet in Williamsburg and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Unnamed Reservoir (Northampton Reservoir [New], Ryans Reservoir)	<u>Source-Entire reservoir</u> to outlet in Whately and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ West Whately Reservoir (Northampton Reservoir [Old])	<u>Source-Entire reservoir</u> to outlet in Whately and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Unnamed Reservoir (Louisiana Brook Reservoir, Grandin Reservoir, Upper Reservoir)	<u>Source-Entire reservoir</u> to outlet in Northfield and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ <u>Lythia-Lythia</u> Springs Reservoir	<u>Source-Entire reservoir</u> to outlet in South Hadley and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>ORW</u>

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Reservoir (Mt. Brook Reservoir)</u>	<u>Source to outlet in Westhampton and those tributaries thereto</u>	-	A	<u>Public Water Supply</u>
<u>Unquommonk Brook Reservoir</u>	<u>Source-Entire reservoir to outlet in Williamsburg and those tributaries thereto</u>	-	A	<u>Public Water Supply</u> <u>ORW</u>
<u>Unnamed Reservoir (Roaring Brook Reservoir)</u>	<u>Entire rReservoir to outlet in Conway and those tributaries thereto</u>	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
<u>Conway Reservoir</u>	<u>Entire reservoir and those tributaries thereto</u>		A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
<u>Mill River</u>	<u>From Walnut Street Bridge, in Springfield, to confluence with the Connecticut River, Springfield</u>		B	CSO
<u>Buttery Brook</u>				CSO
<u>Stony Brook</u>				CSO
<u>Adams Brook</u>	<u>Source in Shutesbury to confluence with Fort River, Amherst</u>		B	<u>Cold Water</u>
<u>Bradford Brook</u>	<u>Source to confluence with East Branch Mill River, Williamsburg</u>		B	<u>Cold Water</u>

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Broad Brook	<u>Entire length (from source in Holyoke to the inlet of Nashawannuck Pond, Easthampton)</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Buffum Brook</u> <u>(Buffum Brook)</u>	<u>Entire length, Pelham</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Couch Brook</u>	<u>Source in Leyden to confluence with Fall River, Bernardston</u>		<u>B</u>	<u>Cold Water</u>
<u>Day Brook</u>	<u>Source in Williamsburg to confluence with unnamed tributary to the Mill River, Northampton (such unnamed tributary flowing from the confluence of Roberts Meadow and Clark brooks, Northampton, to the Mill River, Northampton)</u>		<u>B</u>	<u>Cold Water</u>
Dean Brook	<u>Entire length, Shutesbury</u>	<u>entire length</u>	<u>A</u>	Cold Water <u>PWS</u> <u>ORW</u>
<u>Dry Brook</u>	<u>Source in Bernardston to confluence with Connecticut River, Gill</u>		<u>B</u>	<u>Cold Water</u>
<u>Esther Brook</u>	<u>Source in Whately to confluence with Mill River, Whately</u>		<u>B</u>	<u>Cold Water</u>
Fall River	<u>From the MA-VT state line, Bernardston, to confluence with the Connecticut River, Greenfield</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Fourmile Brook	<u>Entire length, Northfield</u>	<u>entire length</u>	<u>B</u>	Cold Water
Gates Brook	<u>Entire length, Pelham</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Grass Hill Brook</u>	<u>Source in Whately to confluence with Beaver Brook, Williamsburg</u>		<u>B</u>	<u>Cold Water</u>
<u>Goddard Brook</u>	<u>Source in Montague to confluence with Sawmill River, Montague</u>		<u>B</u>	<u>Cold Water</u>
<u>Hearthstone Brook</u>	<u>Source in Pelham to confluence with Adams Brook, Amherst</u>		<u>B</u>	<u>Cold Water</u>
<u>Hannigan Brook</u>	<u>Source in Montague to inlet of Lake Pleasant, Montague</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
Harris Brook	<u>Source in Pelham to the outlet of Intake Reservoir Dam, Pelham (inclusive of the Hawley Reservoir and the Amethyst Brook Hawley/Hill PWS Intake, also listed separately)</u>	<u>entire length</u>	<u>A</u>	Cold Water <u>PWS</u> <u>ORW</u>
	<u>From the outlet of Intake Reservoir Dam, Pelham to confluence with Amethyst Brook, Pelham</u>		<u>B</u>	Cold Water
Joe Wright Brook	<u>Entire length, Williamsburg</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Manhan River, North Branch	Source <u>in Chesterfield</u> to confluence with <u>the</u> Manhan River		<u>B</u>	Cold Water
<u>Meekin Brook</u>	<u>Source in Chesterfield to confluence with West Branch Mill River, Williamsburg</u>		<u>B</u>	<u>Cold Water</u>
Mill Brook (2)	<u>Entire length (from the outlet of Stevens Swamp Dam, Warwick, to confluence with the Connecticut River, Northfield)</u>	<u>entire length</u>	<u>B</u>	Cold Water
Mill River, East Branch	Source <u>in Williamsburg</u> to confluence with West Branch <u>the Mill River</u> , Williamsburg		<u>B</u>	Cold Water
Mill River, West Branch	<u>From</u> East St., Goshen, <u>to confluence with</u> Meekin Brook, Williamsburg		<u>B</u>	Cold Water
<u>Millers Brook</u>	<u>Source in Northfield to confluence with Connecticut River, Northfield</u>		<u>B</u>	<u>Cold Water</u>
<u>Mohawk Brook</u>	<u>Source in Sunderland to confluence with Connecticut River, Hadley</u>		<u>B</u>	<u>Cold Water</u>
Moose Brook	<u>Entire length, Southampton</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Mountain Brook</u>	<u>Source in Leverett to confluence with Doolittle Brook, Leverett</u>		<u>B</u>	<u>Cold Water</u>

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4.06: continued

TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Nurse Brook	<u>Entire length, Shutesbury</u>	<u>entire length</u>	<u>A</u>	Cold Water <u>PWS</u> <u>ORW</u>
<u>Spaulding Brook</u>	<u>Source in Montague to confluence with Sawmill River, Montague</u>		<u>B</u>	<u>Cold Water</u>
<u>Red Brook</u>	<u>Source in Wendell to confluence with Sawmill River, Leverett</u>		<u>B</u>	<u>Cold Water</u>
Rice Brook	<u>Entire length, Westhampton</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Roaring Brook</u>	<u>Source in Conway to South Deerfield Water Supply Dam, Whately</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
	<u>From South Deerfield Water Supply Dam, Whately, to confluence with Mill River, Whately</u>		<u>B</u>	<u>Cold Water</u>
Rogers Brook	<u>Entire length, Goshen</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Sacket-Sacket Brook</u>	<u>Entire length, Montgomery</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Sawmill River</u>	<u>From Dudleyville Rd., Leverett, to confluence with the Connecticut River, Montague</u>		<u>B</u>	Cold Water
Scarboro Brook	<u>Entire length, Belchertown</u>	<u>entire length</u>	<u>B</u>	Cold Water
Schneelock Brook	<u>Entire length, Springfield</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 67
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Schoolhouse Brook	<u>Entire length, West Springfield/Holyoke</u>	<u>entire length</u>	<u>B</u>	Cold Water
Shattuck Brook	<u>Entire length, Leyden/Bernardston</u>	<u>entire length</u>	<u>B</u>	Cold Water
Sodom Brook	<u>Entire length, Westhampton</u>	<u>entire length</u>	<u>B</u>	Cold Water
Tripple Brook	<u>Entire length, Southampton</u>	<u>entire length</u>	<u>B</u>	Cold Water
West Brook	<u>Entire length (from the outlet of West Whately Reservoir Dam, Whately, to confluence with the Mill River, Hatfield)</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Williams Brook</u>	<u>Source in Wendell to confluence with Sawmill River, Leverett</u>		<u>B</u>	<u>Cold Water</u>

¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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**TABLE 58
DEERFIELD RIVER BASIN**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Deerfield River	Vermont Massachusetts From the MA-VT state line, <u>Monroe/Rowe</u> , to confluence with <u>the</u> North River, <u>Charlemont</u>	42.9 - 18.2	B	Cold Water
	From confluence with <u>the</u> North River, <u>Charlemont</u> , confluence to confluence with <u>the</u> Connecticut River, <u>Greenfield/Deerfield</u>	18.2 - 0.0	B	Warm Water
<u>West Branch North River</u>	From source in Heath to confluence with the North River, Colrain		<u>B</u>	<u>Cold Water</u> <u>High Quality</u> <u>Water</u>
<u>East Branch North River</u>	From the MA-VT state line, Colrain, to confluence with the North River, Colrain		<u>B</u>	<u>Cold Water</u> <u>High Quality</u> <u>Water</u>
North River	East and West Branches from the Vermont-Massachusetts state line to their confluence	-	B	Cold Water High Quality Water
<u>North River</u>	From C confluence of East and West Branches of the North River, Colrain, to the treatment works discharge, Colrain, located approximately 0.3 river miles south of the Adamsville Road and Route 112 intersection BBA Fiberweb, Inc. WWTF	3.1 - 2.7	B	Cold Water High Quality Water
	From BBA Fiberweb, Inc. the WWTF treatment works discharge, Colrain, located approximately 0.3 river miles south of the Adamsville Road and Route 112 intersection, to confluence with <u>the</u> Deerfield River,	2.7 - 0.0	B	Cold Water

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4.06: continued

TABLE 58
DEERFIELD RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
	<u>Charlemont/Shelburne/Buckland</u>			

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Green River	Vermont Massachusetts From the MA-VT state line to Green River water supply intake and tributaries thereto	14.5 – 8.4	A	Cold Water Public Water Supply High Quality Water <u>ORW</u>
	From Green River water supply intake to the former Greenfield Treatment Plant POTW's former discharge	8.4 - 0.6	B	Cold Water High Quality Water
	From Former the Greenfield Treatment Plant POTW's former discharge to confluence with the Deerfield River	0.6 - 0.0	B	Cold Water
Highland Springs Reservoir (Upper Reservoir)	Source Entire reservoir to outlet in Ashfield and those tributaries thereto	-	A	Public Water SupplyPWS <u>ORW</u>
<u>Unnamed Reservoir</u> (Mountain Spring Reservoir or Mountain Brook Reservoir)	Source Entire reservoir to outlet in Colrain and those tributaries thereto	-	A	Public Water SupplyPWS <u>ORW</u>
Greenfield Reservoir (Leyden Glen Reservoir, Glen Brook Upper Reservoir)	Source Entire reservoir to outlet in Leyden and those tributaries thereto	-	A	Public Water SupplyPWS <u>ORW</u>
Fox Brook Reservoir	Source Entire reservoir to outlet in Colrain and those tributaries thereto	-	A	Public Water SupplyPWS <u>ORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

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TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Phelps Brook Reservoir	<u>Entire</u> reservoir to outlet in Monroe and those tributaries thereto	-	A	<u>Public Water Supply PWS ORW</u>
Albee, Brook	<u>Entire length, Hawley/Charlemont</u>	<u>entire length</u>	<u>B</u>	Cold Water
Avery Brook	<u>Entire length, Heath/Charlemont</u>	<u>entire length</u>	<u>B</u>	Cold Water
Bear Brook River	<u>Entire length, Ashfield/Conway</u>	<u>entire length</u>	<u>B</u>	Cold Water
Bear Swamp Outflow	<u>Entire length, Rowe</u>	<u>entire length</u>	<u>B</u>	Cold Water
Black Brook	<u>Entire length, Savoy</u>	<u>entire length</u>	<u>B</u>	Cold Water
Bozrah Brook	<u>Entire length, Hawley/Charlemont</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Brown Brook</u>	<u>Source in Savoy to confluence with Chickley River, Savoy</u>		<u>B</u>	<u>Cold Water</u>
<u>Burrington Brook</u>	<u>Source in Heath to confluence with West Branch Brook, Heath</u>		<u>B</u>	<u>Cold Water</u>
<u>Cary Brook</u>	<u>Source in Colrain to confluence with West Branch North River, Colrain</u>		<u>B</u>	<u>Cold Water</u>

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4.06: continued

TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Cascade Brook	Source in Florida to confluence with Deerfield River, Florida		B	Cold Water
Chapel Brook	Entire length, Ashfield/Conway	entire length	B	Cold Water
Chickley River	Entire length (from source in Savoy to confluence with the Deerfield River, Charlemont)	entire length	B	Cold Water
Clesson Brook	Source in Hawley to confluence with Deerfield River, Buckland		B	Cold Water
Cold River	Entire length (from source in Florida to confluence with the Deerfield River, Charlemont)	entire length	B	Cold Water
Cooley Brook	Source in Hawley to confluence with Clesson Brook, Buckland		B	Cold Water
Creamery Brook	Entire length, Ashfield	entire length	B	Cold Water
Dickenson Brook	Source in Heath to confluence with West Branch Brook, Heath		B	Cold Water
Drakes Brook	Entire length (from source in Buckland to confluence with Bear River, Conway)	entire length	B	Cold Water
Dunbar Brook	From the MA-VT state line, Florida, to confluence with the Deerfield River, Monroe	entire length	B	Cold Water

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TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Fife Brook	<u>Entire length, Monroe/Florida</u>	<u>entire length</u>	<u>B</u>	Cold Water
First Brook	<u>Entire length, Buckland</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Foundry Brook</u>	<u>Source in Colrain to confluence with East Branch North River, Colrain</u>		<u>B</u>	<u>Cold Water</u>
<u>Fuller Brook</u>	<u>Source in Hawley to confluence with Chickley River, Hawley</u>		<u>B</u>	<u>Cold Water</u>
<u>Hartwell Brook</u>	<u>Source in Charlemont to confluence with Deerfield River, Charlemont</u>		<u>B</u>	<u>Cold Water</u>
Hawkes Brook	<u>Entire length, Shelburne</u>	<u>entire length</u>	<u>B</u>	Cold Water
Hinsdale Brook	<u>From source in Colrain to confluence with Punch Brook, Greenfield</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Houghton Brook</u>	<u>Source in Colrain to confluence with North River, Colrain</u>		<u>B</u>	<u>Cold Water</u>
<u>Hunt Brook</u>	<u>Source in Florida to confluence with Fife Brook, Florida</u>		<u>B</u>	<u>Cold Water</u>
<u>Johnny Bean Brook</u>	<u>Source in Conway to confluence with South River, Conway</u>		<u>B</u>	<u>Cold Water</u>
Kinsman Brook	<u>Entire length, Heath</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Manning Brook	Source in Florida to confluence with Cold River, Florida		B	Cold Water
Mccard Brook	Source in Leyden to confluence with Mill Brook, Greenfield		B	Cold Water
Mill Brook (2)	Entire length, Heath/Charlemont	entire length	B	Cold Water
Mill Brook (3)	Entire length, Hawley	entire length	B	Cold Water
Miller Brook	Source in Colrain to confluence with Borden Brook, Colrain		A	Cold Water PWS ORW
Maxwell Brook	Entire length, Rowe/Charlemont	entire length	B	Cold Water
North Brook	Entire length, Hawley	entire length	B	Cold Water
Nye Brook	Source in Conway to confluence with Poland Brook, Conway		B	Cold Water
Pelham Brook	Entire length, Rowe/Charlemont	entire length	B	Cold Water
Poland Brook	Entire length, Conway	entire length	B	Cold Water
Reed Brook	Entire length, Florida	entire length	B	Cold Water
Rice Brook	Entire length, Rowe/Charlemont	entire length	B	Cold Water

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4.06: continued

TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Ruddock Brook</u>	<u>Source in Hawley to confluence with Clesson Brook, Buckland</u>		<u>B</u>	<u>Cold Water</u>
Second Brook	<u>Entire length, Buckland</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Sheldon Brook</u>	<u>Source in Shelburne to confluence with Deerfield River, Deerfield</u>		<u>B</u>	<u>Cold Water</u>
<u>Smead Brook</u>	<u>Source in Greenfield to confluence with Wheeler Brook, Greenfield</u>		<u>B</u>	<u>Cold Water</u>
<u>Smith Brook</u>	<u>Source in Florida to confluence with the Deerfield River (inlet to Lower Reservoir), Florida</u>		<u>B</u>	<u>Cold Water</u>
South River	Source to confluence with Johnny Bean Brook		<u>B</u>	Cold Water
<u>Stewart Brook</u>	<u>Source in Colrain to confluence with Hinsdale Brook, Shelburne</u>		<u>B</u>	<u>Cold Water</u>
Tannery Brook	<u>Entire length, Savoy</u>	<u>entire length</u>	<u>B</u>	Cold Water
Taylor Brook	<u>Entire length, Rowe</u>	<u>entire length</u>	<u>B</u>	Cold Water
Third Brook	<u>Entire length, Buckland</u>	<u>entire length</u>	<u>B</u>	Cold Water
Todd Brook	<u>Entire length, Charlemont</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Unnamed Stream (within Hog Hollow) Brook</u>	<u>Entire length, Buckland</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 58
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
West Branch Brook	<u>From the MA-VT state line, Heath, to confluence with West Branch North River, Heath</u>	<u>entire length</u>	<u>B</u>	Cold Water
Wilder Brook	<u>Entire length, Heath/Charlemont</u>	<u>entire length</u>	<u>B</u>	Cold Water
Willis Brook	<u>Entire length, Heath/Charlemont</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Wheatherby Brook</u>	<u>Source in Hawley to confluence with Deerfield River, Charlemont</u>		<u>B</u>	<u>Cold Water</u>
<u>Wheeler Brook</u>	<u>From MA-NH state line, Rowe, to inlet of Sherman Reservoir, Rowe</u>		<u>B</u>	<u>Cold Water</u>
Whitcomb Brook	<u>Entire length, Florida</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>White Brook</u>	<u>Source in Florida to confluence with Cold River, Florida</u>		<u>B</u>	<u>Cold Water</u>

¹Names cited in parentheses are unofficial, locally-used names

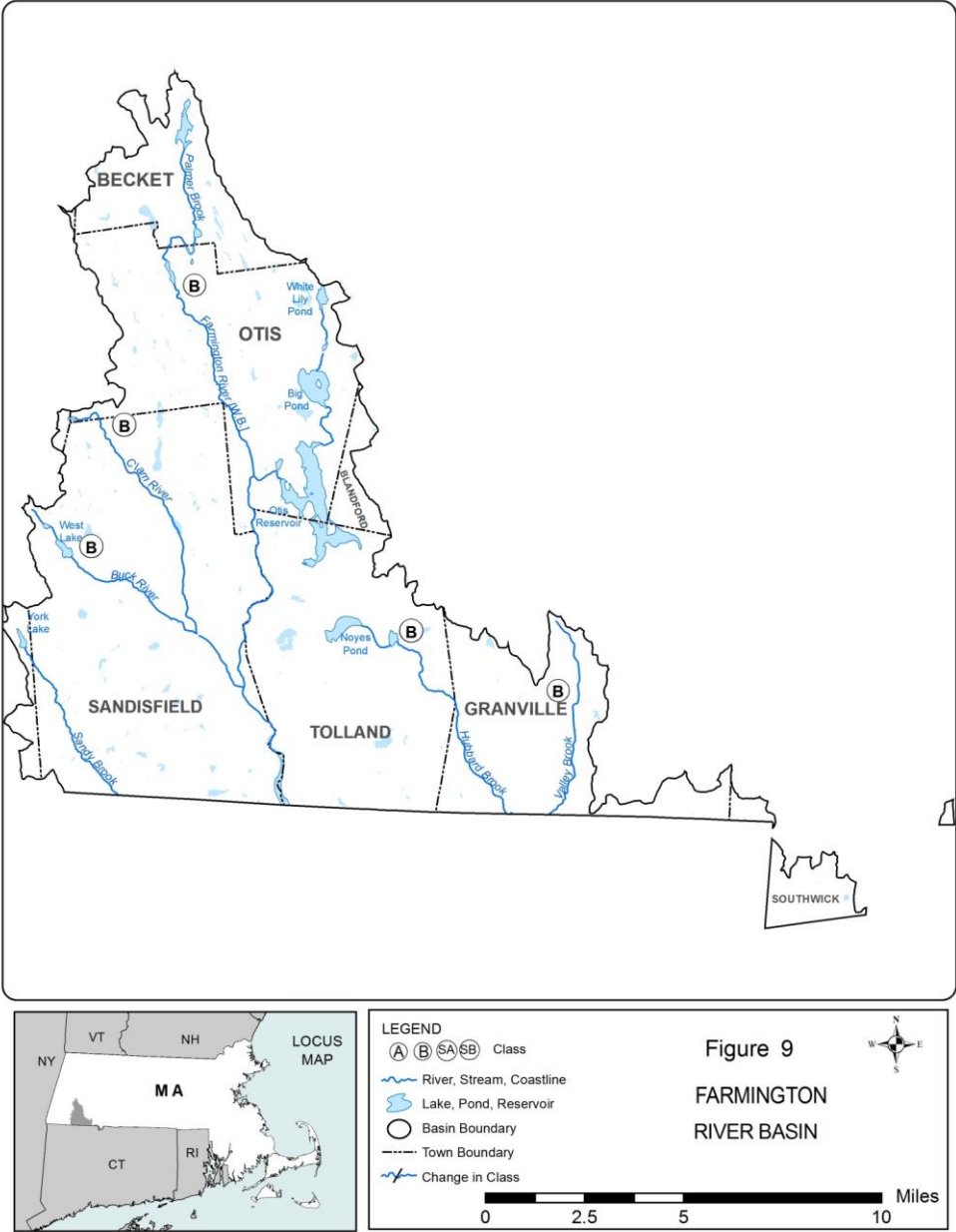
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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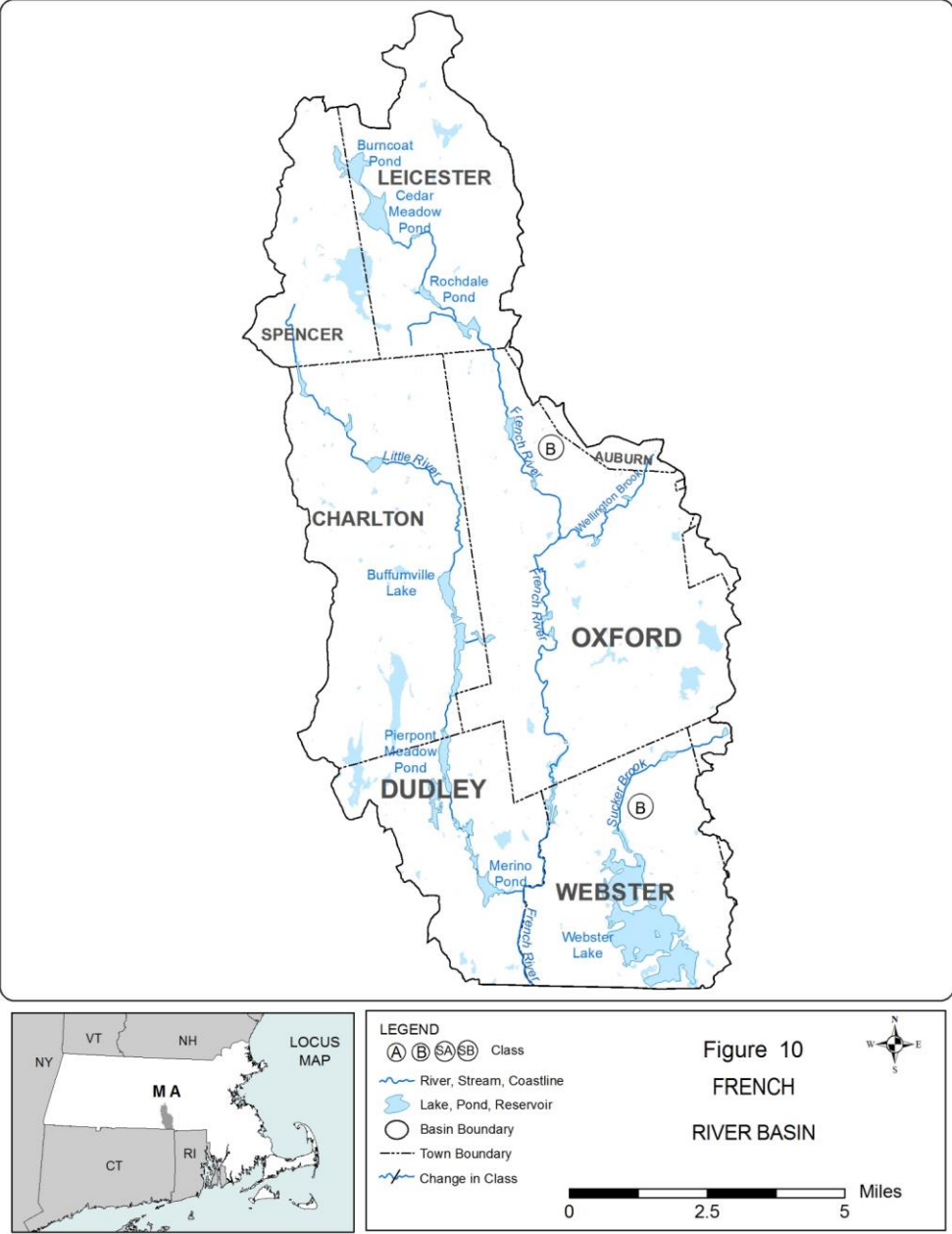
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TABLE 93
FARMINGTON RIVER BASIN

<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS</u>
All Surface waters within the Farmington River Basin with the exception of those designated otherwise	<u>All surface waters with the exception of those that may be designated otherwise</u>		B	Cold Water High Quality Water

† Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



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**TABLE 10
FRENCH RIVER BASIN**

<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
French River	From the outlet of Greenville Pond, Leicester, to the Connecticut-MA-CT state line, Dudley	17.8 – 0.0	B	Warm Water
Unnamed tributary to Town Meadow Brook	From the outlet of Sargent Pond to the inlet of Dutton Pond	0.5 – 0.0	B	Warm Water High Quality Water
Town Meadow Brook	From the outlet of Dutton Pond to the inlet of Greenville Pond	1.9 – 0.0	B	Warm Water
Henshaw Pond	Source-Entire pond to outlet in Leicester and those tributaries thereto	-	A	Public Water Supply PWS ORW

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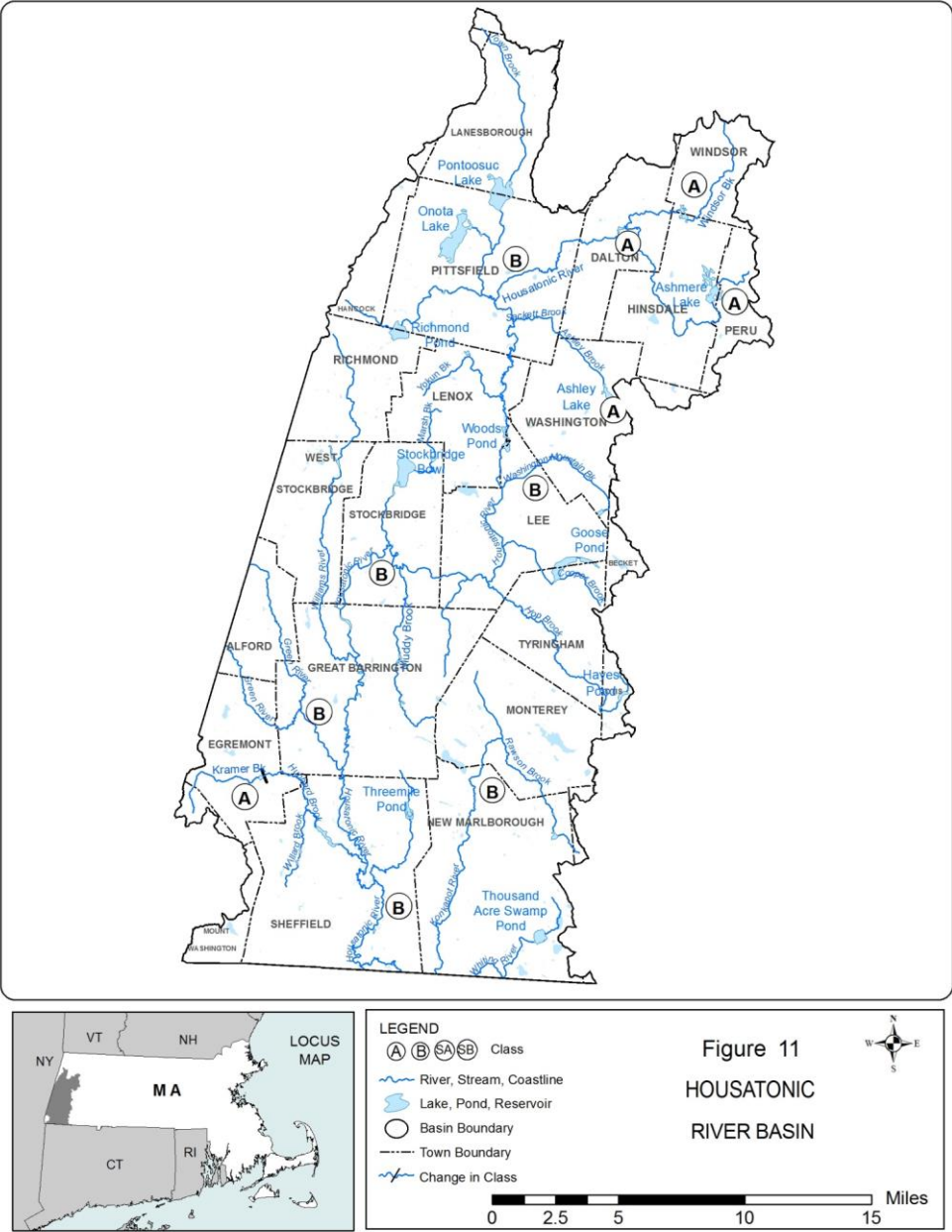
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

† Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



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TABLE 112
HOUSATONIC RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
East Branch Housatonic River	Source <u>in Washington</u> to outlet <u>of</u> Center Pond, Dalton	69.0 - 60.9 <u>13.6 - 5.5</u>	B	Cold Water High Quality Water
	<u>From</u> o Outlet <u>of</u> Center Pond, Dalton to confluence with <u>the</u> Housatonic River, <u>Pittsfield</u>	60.9 - 55.4 <u>5.5 - 0.0</u>	B	Warm Water
Housatonic River	<u>From</u> C confluence of <u>the</u> Southwest and West Branches Housatonic River, <u>Pittsfield</u> , to Pittsfield <u>WWTF POTW discharge</u>	55.4 - 50.9	B	Warm Water
	<u>From</u> Pittsfield <u>WWTF POTW discharge</u> to <u>the MA-CT</u> state line, <u>Sheffield</u>	50.9 - 0.0	B	Warm Water
West Branch Housatonic River	Entire <u>length</u> , <u>Pittsfield</u>	55.4 - 36.0 <u>0.0</u>	B	Cold Water High Quality Water
Southwest Branch Housatonic River	Entire <u>length</u> , <u>Pittsfield</u>	55.4 - 0.8 <u>34.1 - 0.0</u>	B	Cold Water High Quality Water
Goose Pond Brook	Entire <u>length</u> , <u>Lee/Tyringham</u>	2.3 - 0.0	B	Cold Water High Quality Water
Williams River	Entire <u>length</u> , <u>Great Barrington</u>	10.0 - 0.0	B	Cold Water High Quality Water
Green River	Entire <u>length</u> , <u>Alford, Egremont, and Great Barrington</u>	9.5 - 0.0	B	Cold Water High Quality Water

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4.06: continued

TABLE 112
HOUSATONIC RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Hubbard Brook	Entire <u>length, Egremont and Sheffield</u>	6.6 - 0.0	B	Cold Water High Quality Water
Fenton Brook	Entire <u>length, Egremont</u>	2.9 - 0.0	B	Cold Water High Quality Water
Karner Brook <u>(includes unnamed reservoir (Karner Brook Reservoir) PWS intake dam and those tributaries thereto, Mount Washington/Egremont²)</u>	Source to <u>unnamed reservoir (Karner Brook Reservoir) PWS intake dam and those tributaries thereto, Mount Washington/Egremont²</u>	<u>4.2 - 0.0</u>	A	<u>PWS</u> <u>Tributary to Public Supply</u> <u>ORW</u>
	<u>Entire Length From unnamed reservoir (Karner Brook Reservoir) PWS intake to the inlet of Mill Pond, Egremont²</u>		<u>B</u>	<u>Outstanding Resource</u> <u>Water</u> <u>ORW</u>
East Mountain Reservoir	<u>Source-Entire reservoir</u> to outlet in Great Barrington and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
Long Pond	<u>Source-Entire pond</u> to outlet in Great Barrington and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
Belmont Reservoir	<u>Source-Entire reservoir</u> to outlet in Hinsdale and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
Lower Reservoir (Coddington Brook Lower Reservoir, Vanetti Reservoir)	<u>Source-Entire reservoir</u> to outlet in Lee and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>

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4.06: continued

TABLE 112
HOUSATONIC RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Leahey Reservoir (Coddington Brook Upper Reservoir)	<u>Source-Entire reservoir</u> to outlet in Lee and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Mt. Washington Brook	Source to outlet in Washington and those tributaries thereto	-	A	Public Water Supply
Lenox Reservoir (Lower Root Reservoir)	<u>Source-Entire reservoir</u> to outlet in Lenox and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Lenox Reservoir (Upper Root Reservoir)	<u>Source-Entire reservoir</u> to outlet in Lenox and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Ashley Lake (Ashley Lake Reservoir)	<u>Source-Entire lake</u> to outlet in Washington and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Sandwash Reservoir	<u>Source-Entire reservoir</u> to outlet in Washington and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Farnham Reservoir	<u>Source-Entire reservoir</u> to outlet in Washington and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
School House Lake	<u>Entire lake to outlet in Washington and those tributaries thereto (inclusive of Washington Mountain Brook upstream of the lake)</u>	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 112
HOUSATONIC RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
▲ Cleveland Brook Reservoir (Cleveland Reservoir)	Source <u>Entire reservoir</u> to outlet in Hinsdale and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Lake Averic (Echo Lake, Mountain Mirror Lake)	Source <u>Entire lake</u> to outlet in Stockbridge and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Egypt Pond (Egypt Brook Reservoir)	<u>Entire Reservoir-pond</u> to outlet in Dalton and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Windsor Reservoir (Cady Brook Reservoir)	<u>Entire r</u> eservoir to outlet in Windsor and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Upper Sackett Reservoir (Sackett Brook Reservoir)	<u>Entire r</u> eservoir to outlet in Hinsdale and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Anthony Pond <u>Unnamed</u> <u>reservoir</u> (Anthony Brook Reservoir)	<u>The entire unnamed reservoir (known as Anthony Brook Reservoir) pond</u> to outlet in Dalton and those tributaries thereto <u>(inclusive of Anthony Pond)</u>	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u> <u>Cold Water</u>
	<u>From the outlet of unnamed reservoir (Anthony Brook Reservoir), Dalton, to confluence with Wahconah Falls Brook, Dalton</u>		<u>B</u>	<u>Cold Water</u>

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4.06: continued

TABLE 112
HOUSATONIC RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ashley WTP Intake Reservoir (Ashley Intake Reservoir)	Entire reservoir to outlet in Dalton Washington and those tributaries thereto	-	A	Public Water Supply PWS ORW
Karner Brook Reservoir	and tributaries thereto		A	Public Water Supply
Sandisfield Road Reservoir	Entire reservoir and those tributaries thereto		A	Public Water Supply PWS ORW
Alford Brook	Source in West Stockbridge to confluence with Seekonk Brook, Alford		B	Cold Water
Barton Brook	Source in Dalton to confluence with East Branch Housatonic River, Pittsfield		B	Cold Water
Bear Rock Stream	Source in Mount Washington to confluence with Schenob Brook, Sheffield		B	Cold Water
Brattle Brook	Source in Dalton to confluence with East Branch Housatonic River, Pittsfield		B	Cold Water
Churchill Brook	Entire length, Lanesboro/Pittsfield		B	Cold Water
Cleveland Brook	From the outlet of Cleveland Brook Reservoir, Hinsdale, to confluence with East Branch Housatonic River, Dalton		B	Cold Water

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 112
HOUSATONIC RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Commons Brook	Source in Lee to confluence with Coddington Brook, Lee		A	Cold Water PWS ORW
Crystal Brook	Source in Tyingham to confluence with Hop Brook, Tyingham		B	Cold Water
Dry Brook	Source in Mount Washington to confluence with Schenob Brook, Sheffield		B	Cold Water
Hathaway Brook	Source in Washington to confluence with Sackett Brook, Dalton		B	Cold Water
Muddy Brook	Source in Great Barrington to confluence with Stony Brook, Great Barrington		B	Cold Water
Race Brook	Source in Mount Washington to confluence with Dry Brook, Sheffield		B	Cold Water
Russo Brook	Source in Hinsdale to confluence with East Branch Housatonic River, Hinsdale		B	Cold Water
Swann Brook	Source in Monterey to confluence with Konkapot River, Monterey		B	Cold Water
Sykes Brook	Source in Pittsfield to confluence with Housatonic River, Pittsfield		B	Cold Water

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 112
HOUSATONIC RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Tom Ball Brook</u>	<u>Source in West Stockbridge to confluence with Alford Brook, Alford</u>		<u>B</u>	<u>Cold Water</u>
<u>Tyler Brook</u>	<u>Entire length, Windsor (Tyler Brook is a tributary to Windsor Brook which flows into Windsor Reservoir and ultimately to Cleveland Reservoir)</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
<u>Welch Brook</u>	<u>Entire length, Hinsdale³</u>		<u>B</u>	<u>Cold Water</u>
<u>Weston Brook</u>	<u>Source in Windsor to confluence with Wahconah Falls Brook, Dalton</u>		<u>B</u>	<u>Cold Water</u>

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Karner Brook Watershed ACEC

³Note that all or a portion of these surface waters are within the Hinsdale Flats Watershed ACEC

*Acronyms:

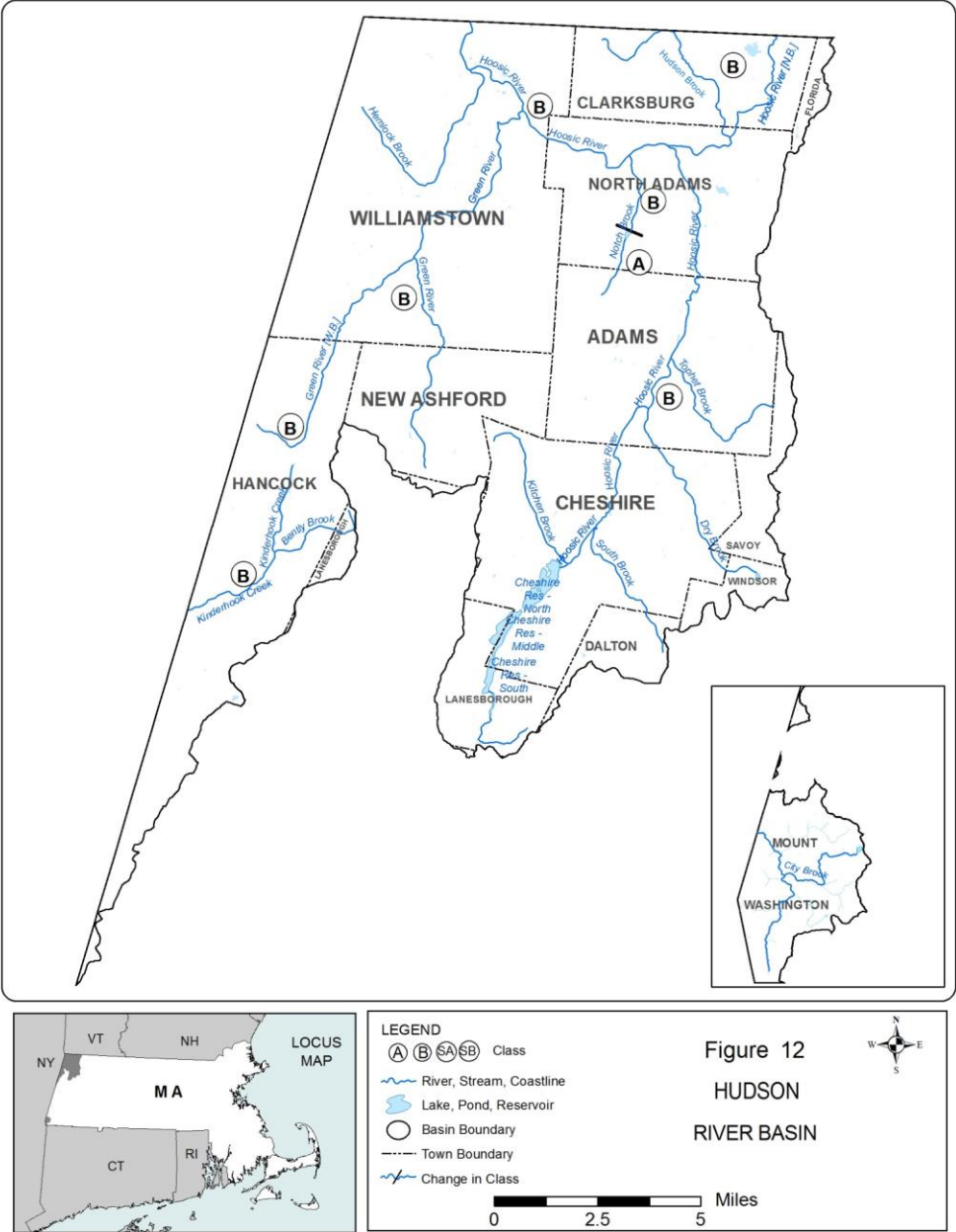
ACEC = Area of Critical Environmental Concern

ORW = Outstanding Resource Water

PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 12
HUDSON RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
North Branch Hoosic River	From the Vermont-Massachusetts MA-VT state line to confluence with the Hoosic River (South Branch Hoosic River)	9.9 - 0.0	B	Cold Water High Quality Water
Hoosic River (South Branch Hoosic River)	From the outlet of Cheshire Reservoir to Adams WWTF POTW discharge	23.5 - 15.4	B	Cold Water High Quality Water
	From Adams WWTF POTW discharge to confluence with the North Branch Hoosic River	15.4 - 10.3	B	Warm Water
Hoosic River	Confluence of North Branch Hoosic River and Hoosic River (South Branch Hoosic River) to MA-VT state line	10.3 - 0.0	B	Warm Water
Green River	Entire length, <u>New Ashford/Williamstown</u>	10.8 - 0.0	B	Cold Water
Basset Brook Reservoir	Source-Entire reservoir to outlet in Cheshire and those tributaries thereto		A	Public Water <u>Supply</u> PWS <u>ORW</u>
Unnamed Reservoir (Kitchen Brook Reservoir)	Source-Entire reservoir to outlet in Cheshire and those tributaries thereto		A	Public Water <u>Supply</u> PWS <u>ORW</u>
Notch Reservoir	Source-Entire reservoir to outlet in North Adams and those tributaries thereto		A	Public Water <u>Supply</u> PWS <u>ORW</u>

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<u>Mt. Williams Reservoir</u>	Source <u>Entire reservoir</u> to outlet in North Adams and those tributaries thereto		A	Public Water Supply <u>PWS ORW</u>
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TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Williamstown Reservoir</u> (<u>Sherman Springs Reservoir</u>)	Source <u>Entire reservoir</u> to outlet in Williamstown and those tributaries thereto		A	Public Water Supply <u>PWS ORW</u>
<u>Thunder Brook</u>	Entire length <u>in Cheshire</u> and those tributaries thereto		A	Public Water Supply <u>ORW</u>
<u>Bashbish Brook</u>	Source to the <u>MA-NY</u> state borderline , <u>Mount Washington</u>		B	Cold Water High Quality Water
<u>Bear Swamp Brook</u>	<u>Source in Clarksburg to confluence with Hudson Brook, Clarksburg</u>		<u>B</u>	<u>Cold Water</u>
<u>Birch Brook</u>	<u>Source in Williamstown to confluence with Buxton Brook, Williamstown</u>		<u>B</u>	<u>Cold Water</u>
<u>Buxton Brook</u>	<u>Entire length, Williamstown</u>		B	Cold Water
<u>East Branch Green River</u>	<u>Source in New Ashford to confluence with Green River, New Ashford</u>		<u>B</u>	<u>Cold Water</u>
<u>Gore Brook</u>	<u>Source in Dalton to inlet of Cheshire Reservoir, Cheshire</u>		<u>B</u>	<u>Cold Water</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

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TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Hemlock Brook	<u>entire length</u> From the MA-NY state line to confluence with the Hoosic River, Williamstown		<u>B</u>	Cold Water
<u>Hopper Brook</u>	<u>Source in Williamstown to confluence with Green River, Williamstown</u>		<u>B</u>	<u>Cold Water</u>
<u>Hoxie Brook</u>	<u>Source in Adams to confluence with Hoosic River, Adams</u>		<u>B</u>	<u>Cold Water</u>
<u>Hunterfield Brook</u>	<u>Source in Clarksburg to confluence with North Branch Hoosic River, North Adams</u>		<u>B</u>	<u>Cold Water</u>
<u>Kinderhook Creek</u>	<u>Source to the MA-NY state borderline, Hancock</u>		<u>B</u>	Cold Water High Quality Water
<u>Kitchen Brook</u>	<u>Source in Cheshire to inlet of unnamed reservoir (Kitchen Brook Reservoir)</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
	<u>From Kitchen Brook Dam [outlet of unnamed reservoir (Kitchen Brook Reservoir)] to confluence with South Branch Hoosic River, Cheshire</u>		<u>B</u>	<u>Cold Water</u>
McDonald Brook	<u>Entire length, Windsor/Cheshire</u>		<u>B</u>	Cold Water
<u>Miller Brook</u>	<u>Source in Adams to confluence with Tophet Brook, Adams</u>		<u>B</u>	<u>Cold Water</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Mitchell Brook	Source in New Ashford to confluence with East Branch Green River, New Ashford		B	Cold Water
Money Brook	Source in Williamstown to confluence with Hopper Brook, Williamstown		B	Cold Water
Notch Brook	Source in Adams to inlet of Notch Reservoir, North Adams		A	Cold Water PWS ORW
	From Notch Reservoir Dam (outlet of Notch reservoir) to confluence with Hoosic River, North Adams		B	Cold Water
Patton Brook	Source in Savoy to confluence with Tophet Brook, Adams		B	Cold Water
Penniman Brook	Source in Cheshire to confluence with Hoosic River, Cheshire		B	Cold Water
Pettibone Brook	Source in Cheshire to inlet of Cheshire Reservoir, Lanesborough		B	Cold Water
Reed Brook	Source in Adams to confluence with Tophet Brook, Adams		B	Cold Water

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4.06: continued

TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>South Brook</u>	<u>Source in Dalton to confluence with Hoosic River and South Branch Hoosic River, Cheshire</u>		<u>B</u>	<u>Cold Water</u>
<u>Sherman Brook</u>	<u>Source to confluence with Hoosic River, North Adams</u>		<u>B</u>	<u>Cold Water</u>
<u>Sweet Brook</u>	<u>Source in Williamstown to confluence with Hemlock Brook, Williamstown</u>		<u>B</u>	<u>Cold Water</u>
<u>Tunnel Brook</u>	<u>entire Entire length, North Adams</u>		<u>B</u>	<u>Cold Water</u>
<u>Wheeler Brook</u>	<u>Source in Clarksburg to confluence with Hunterfield Brook, Clarksburg</u>		<u>B</u>	<u>Cold Water</u>

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¹ Names cited in parentheses are unofficial, locally-used names

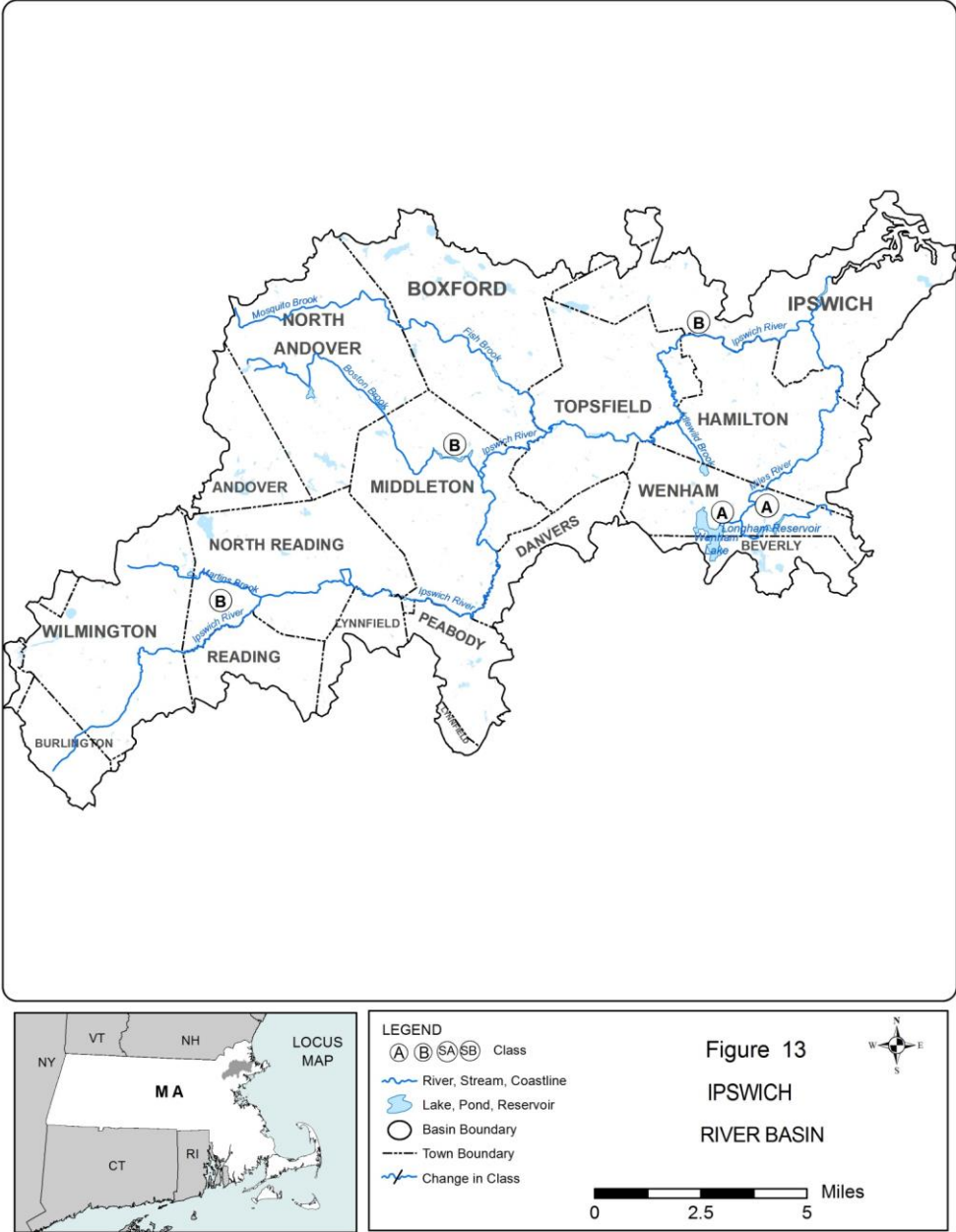
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2213 IPSWICH RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ipswich River	Source to <u>the</u> Salem Beverly Waterway Canal	41.1 - 16.4	B	Treated Water Supply Warm Water High Quality Water
	<u>From the</u> Salem Beverly Waterway Canal to <u>the</u> tidal portion	16.4 - 4.5	B	Warm Water High Quality Water
	Tidal portion and <u>those</u> tributaries thereto	4.5 - 0.0	SA	Shellfishing
Middleton Pond	Source-Entire pond to outlet in Middleton and those tributaries thereto	-	A	Public Water Supply PWS <u>ORW</u>
Swan Pond	Source-Entire pond to outlet in North Reading and those tributaries thereto	-	A	Public Water Supply PWS <u>ORW</u>
Mill Pond Reservoir	Source-Entire reservoir to outlet in Burlington and those tributaries thereto	-	A	Public Water Supply PWS <u>ORW</u>
Longham Reservoir	Entire reservoir Source to outlet in Wenham and those tributaries thereto	-	A	Public Water Supply PWS <u>ORW</u>
Wenham Lake	Source-Entire lake to outlet in Wenham and those tributaries thereto	-	A	Public Water Supply PWS <u>ORW</u>
Putnamville Reservoir	Entire reservoir Source to outlet in Danvers and those tributaries thereto	-	A	Public Water Supply PWS <u>ORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2213 IPSWICH RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Suntaug Lake	Source <u>Entire lake</u> to outlet in Lynn and Peabody and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Winona Pond	<u>Entire pond</u> to outlet in Peabody and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Unnamed Reservoir (Emerson Brook Reservoir)	<u>Entire reservoir</u> to outlet in Middleton and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Fox Creek, Neck Creek and Treadwell Island Creek	Portion in Parker River/Essex Bay <u>the Great Marsh ACEC</u> ‡		<u>SA</u>	Outstanding Resource Water <u>ORW</u>
<u>Neck Creek</u>	<u>Portion in the Great Marsh ACEC</u> ‡		<u>SA, B**</u>	<u>ORW</u>
<u>Treadwell Island Creek</u>	<u>Portion in the Great Marsh ACEC</u> ‡		<u>SA, B**</u>	<u>ORW</u>

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¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

ACEC = Area of Critical Environmental Concern

ORW = Outstanding Resource Water

PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

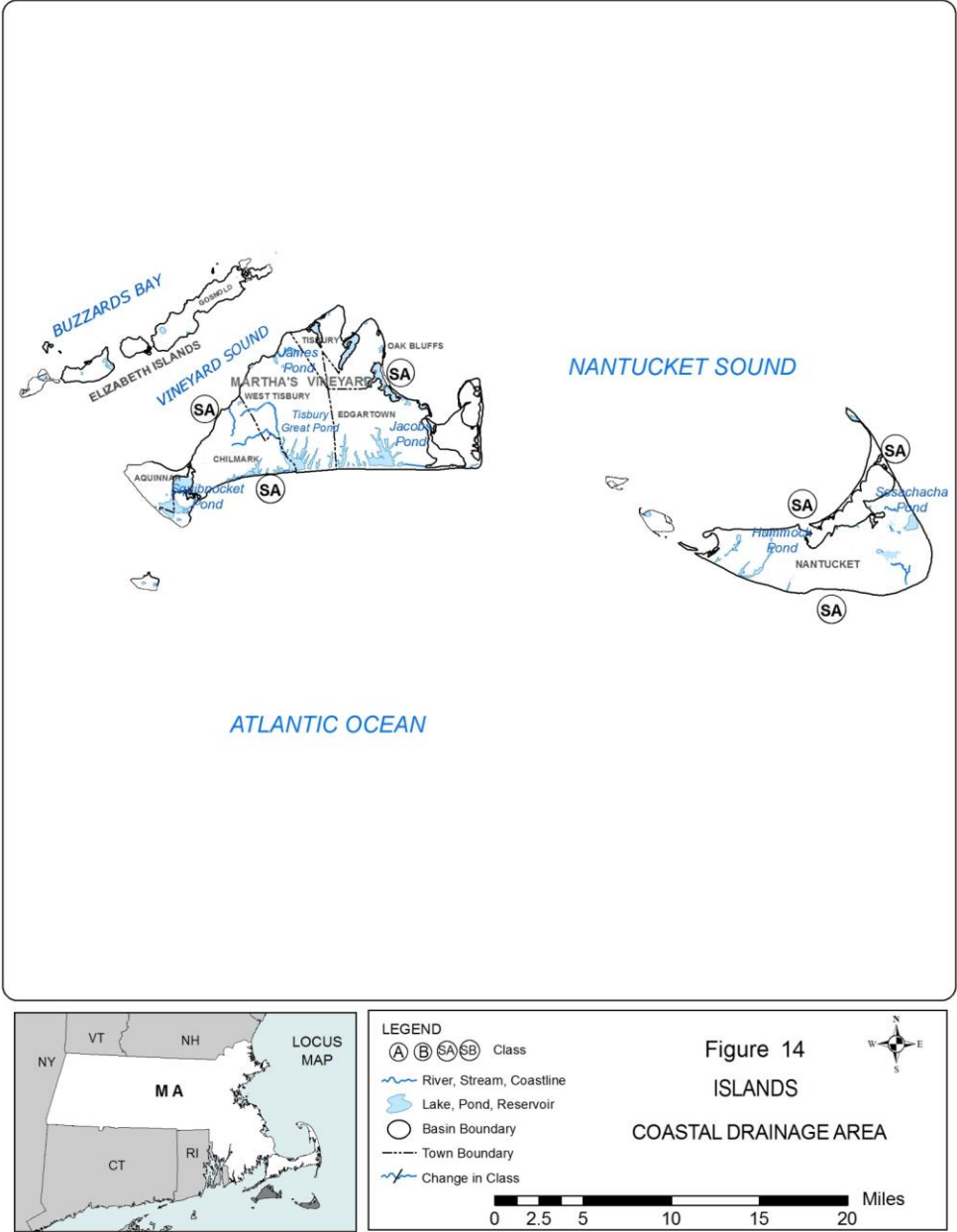
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4.06: continued

[†Formerly the Parker River/Essex Bay ACEC](#)

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4.06: continued

TABLE 2714 ISLANDS COASTAL DRAINAGE AREA				
<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Atlantic Ocean and other surface waters</u>	<u>All surface waters within and adjacent* to the Elizabeth Islands subject to the rise and fall of the tide and within 1,000 feet seaward of mean low water</u>	-	SA	Shellfishing, Outstanding Resource Water <u>ORW</u>
	<u>All surface waters subject to the rise and fall of the tide, within the off-shore boundaries of the towns within Nantucket and Dukes counties of Dukes County and Nantucket Drainage Areas</u>	-	SA	Shellfishing

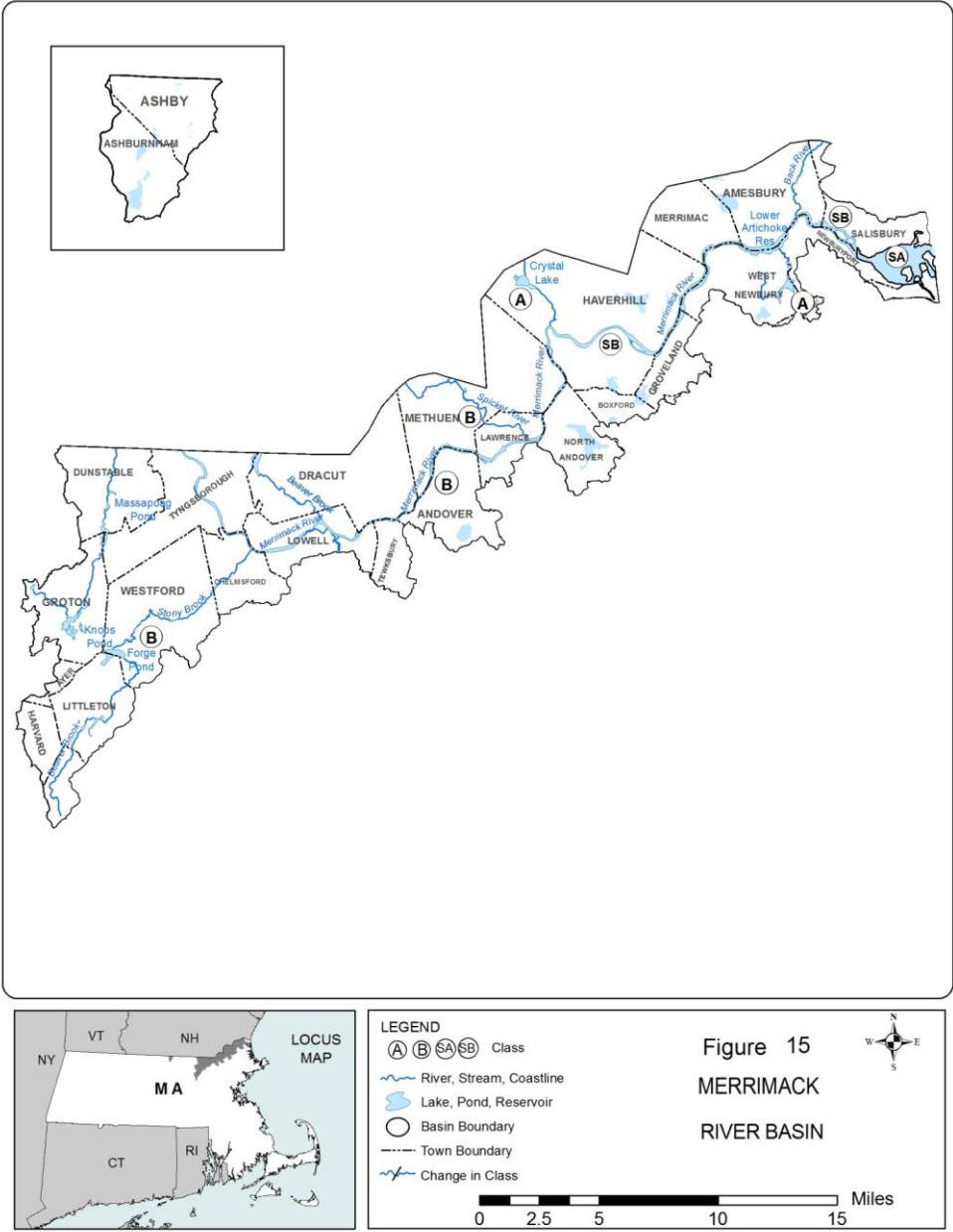
† Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronym:

ORW = Outstanding Resource Water

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued



314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2015
MERRIMACK RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Merrimack River	<u>From the MA-NH State line to Pawtucket Dam</u>	49.8 - 40.6	B	Warm Water Treated Water Supply CSO
	<u>From</u> Pawtucket Dam to Essex Dam, Lawrence	40.6 - 29.0	B	Warm Water Treated Water Supply CSO
	<u>From</u> Essex Dam, Lawrence to <u>confluence with the Little River, Haverhill</u>	29.0 - 21.9	B	Warm Water CSO
	<u>From confluence with the Little River, Haverhill to the Atlantic Ocean; includes the Back River, Salisbury</u>	21.9 - 0.0	SB	Shellfishing CSO
	The Basin in the Merrimack River Estuary, Newbury and Newburyport	-	SA	Shellfishing
Stony Brook	<u>Entire Length</u> <u>From outlet of Forge Pond, Westford to confluence with the Merrimack River, Chelmsford</u>	10.3 - 0.0	B	Warm Water
Beaver Brook	<u>From the MA-NH State line, Dracut, to confluence with the Merrimack River</u>	4.2 - 0.0	B	Cold Water
Spicket River	<u>From the MA-NH State line, Methuen, to the General Street Bridge, Lawrence confluence with Merrimack River</u>	<u>6.4 - 0.0</u>	B	Warm Water

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2015
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Spicket River (cont.)</u>	<u>From the General Street Bridge, Lawrence, to confluence with the Merrimack River, Lawrence</u>		<u>B</u>	<u>Warm Water CSO</u>
<u>Little River</u>	<u>From the MA-NH sState line, Rosemont, to confluence with the Merrimack River, Haverhill</u>	4.3 - 0.0	B	Warm Water
<u>Cobbler Brook</u>	<u>Entire LengthSource in Merrimac to confluence with the Merrimac River</u>	3.7 - 0.0	B	Cold Water
<u>Powwow River</u>	<u>From outlet of Tuxbury Pond, Amesbury, to inlet of Lake Gardner and those tributaries thereto</u>		<u>A</u>	<u>PWS ORW</u>
	<u>From Outlet of Lake Gardner to tidal portion</u>	6.4 - 1.3	B	Warm Water
	<u>Tidal portion</u>	1.3 - 0.0	SB	Shellfishing
<u>Plum Island River</u>	<u>North of High Sandy sand bar², Newbury</u>		SA	Shellfishing <u>Outstanding Resource WaterORW</u>
<u>Little Pine Island Creek</u>	<u>Entire length², Newbury</u>		<u>SA, B**</u>	<u>ORW</u>
<u>Plumbush Creek</u>			<u>SA₁**</u> <u>B₁**</u>	<u>Outstanding Resource WaterORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2015
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Lake Attitash	Source Entire lake to outlet in Amesbury and those tributaries thereto	-	A	Public Water Supply PWS ORW
Tuxbury Pond	Entire pond Source to outlet in Amesbury and those tributaries thereto	-	A	Public Water Supply PWS ORW
Powwow River	Outlet of Tuxbury Pond to inlet Lake Gardner and tributaries thereto	-	A	Public Water Supply
Millvale Reservoir	Entire reservoir Source to outlet in Haverhill and those tributaries thereto	-	A	Public Water Supply PWS ORW
Kenoza Lake	Entire lake Source to outlet in Haverhill and those tributaries thereto	-	A	Public Water Supply PWS ORW
Crystal Lake	Entire lake Source to outlet in Haverhill and those tributaries thereto	-	A	Public Water Supply PWS ORW
Haggets Pond	Source Entire pond to outlet in Andover and those tributaries thereto	-	A	Public Water Supply PWS ORW
Fish Brook	Entire length and those tributaries thereto	4.0 - 0.0	A	Public Water Supply PWS ORW

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2015
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
▲ Lake Cochichewick	<u>Source-Entire lake</u> to outlet in North Andover and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Artichoke Reservoir (Upper and Lower Artichoke Reservoir)	<u>Entire reservoir-Source</u> to outlet in West Newbury and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Unnamed Reservoir (Indian Hill Reservoir)	<u>Source-Entire reservoir</u> to outlet in West Newbury and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Chadwick Pond (Little Pond)	<u>Entire pPond</u> to outlet in Haverhill and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Hoveys Pond (Mitchell Pond, Johnson Pond)	<u>Entire pPond</u> to outlet in Boxford and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Johnsons Pond	<u>Entire pPond</u> to outlet in Groveland and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
▲ Round Pond (Lake Pentucket)	<u>Entire lLake</u> to outlet in Haverhill and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 2015
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
<u>Crooked Springs Brook</u>	<u>Source in Chelmsford to confluence with Stony Brook, Chelmsford</u>		<u>B</u>	<u>Cold Water</u>
<u>Reed Brook</u>	<u>Source in Westford to confluence with Stony Brook, Westford</u>		<u>B</u>	<u>Cold Water</u>

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Great Marsh Area of Critical Environmental Concern (ACEC), formerly Parker River/Essex Bay ACEC

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronyms:

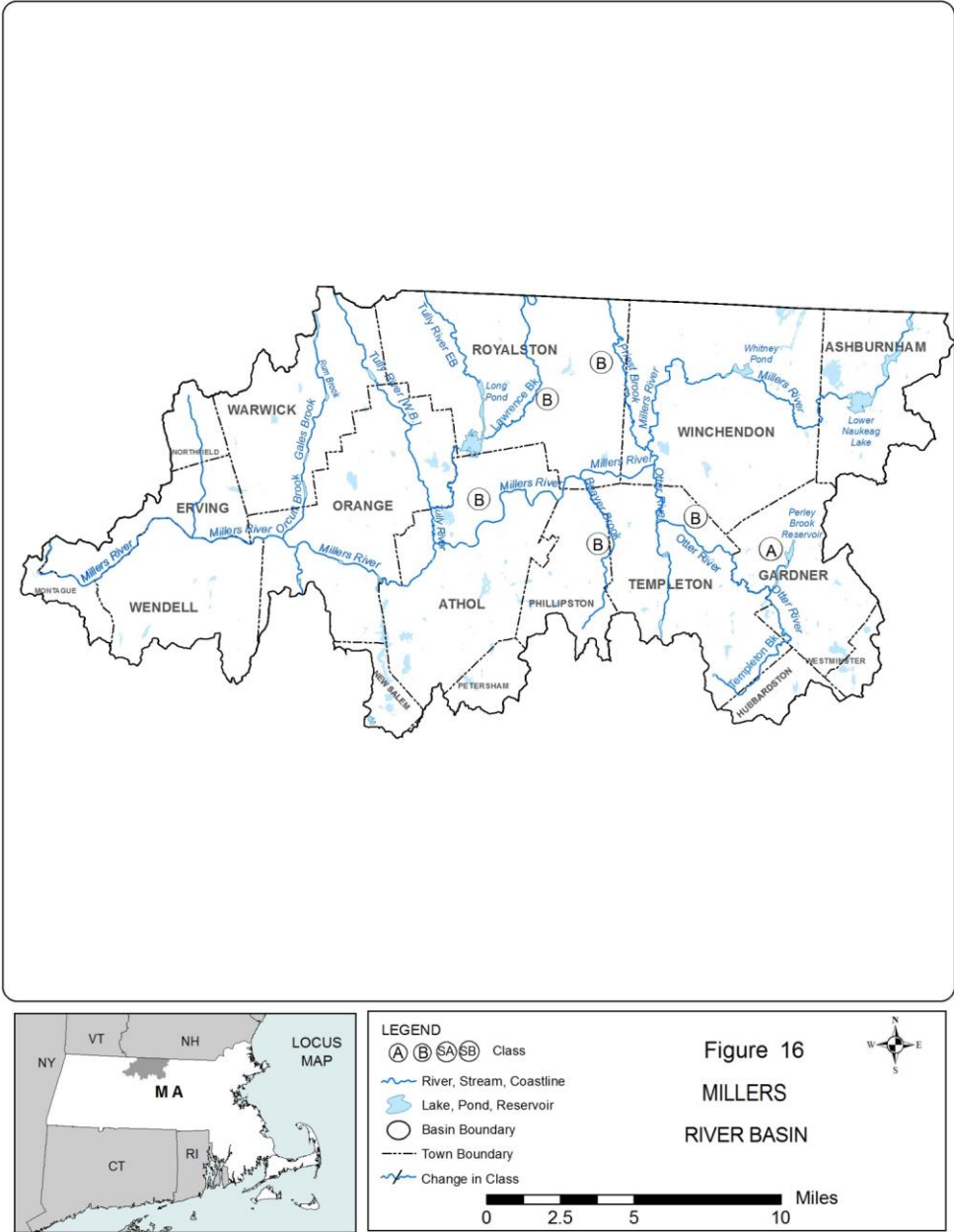
CSO = Combined Sewer Overflow

ORW = Outstanding Resource Water

PWS = Public Water Supply

**Coastal and marine waters Class SA, fresh waters Class B

4.06: continued



314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

**TABLE 167
MILLERS RIVER BASIN**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
▲ Millers River	Source to Winchendon <u>WWTF POTW discharge</u>	42.2 - 35.7	B	Cold Water
	<u>From</u> Winchendon <u>WWTF POTW discharge</u> to confluence with <u>the</u> Connecticut River	35.7 - 0.0	B	Warm Water
▲ Otter River	Source to Gardner <u>POTW discharge</u>	12.2 - 9.7	B	Aquatic Life
	<u>From</u> Gardner <u>WWTF POTW discharge</u> to confluence with <u>the</u> Millers River	9.7 - 0.0	B	Warm Water
▲ Beaver Brook	Source <u>in Phillipston</u> to confluence with <u>the</u> Millers River, <u>Royalston</u>	<u>entire length</u>	B	Cold Water
▲ Upper Naukeag Lake	<u>Source</u> <u>Entire lake</u> to outlet in Ashburnham and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Newton Reservoir	<u>Source</u> <u>Entire reservoir</u> to outlet in Athol and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Crystal Lake (Crystal Lake Reservoir)	<u>Entire lake</u> <u>Source</u> to outlet in Gardner and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
▲ Cowee Pond (Mamjohn Pond)	<u>Source</u> <u>Entire pond</u> to outlet in Gardner and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>

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Perley Brook Reservoir	Source Entire reservoir to outlet in Gardner and those tributaries thereto	-	A	Public Water Supply PWS ORW
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TABLE 167
MILLERS RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Lake Ellis (Ellis Pond)	Entire Lake to outlet in Athol and those tributaries thereto	-	A	Public Water Supply ORW
<u>Boyce Brook</u>	<u>From New Hampshire state line at Royalston to confluence with East Branch Tully River, Royalston</u>		<u>B</u>	<u>Cold Water</u>
<u>Briggs Brook</u>	<u>Source in Erving to confluence with Millers River, Erving</u>		<u>B</u>	<u>Cold Water</u>
<u>Cheney Brook</u>	<u>Source in Warwick to confluence with West Brook, Orange</u>		<u>B</u>	<u>Cold Water</u>
<u>Collar Brook</u>	<u>Source in Royalston to confluence with West Branch Tully River, Orange</u>		<u>B</u>	<u>Cold Water</u>
<u>Coolidge Brook</u>	<u>Source in Orange to confluence with North Pond Brook, Orange</u>		<u>B</u>	<u>Cold Water</u>
<u>Crow Hill Brook</u>	<u>Source in Templeton to confluence with Trout Brook, Templeton</u>		<u>B</u>	<u>Cold Water</u>
<u>Dunn Brook</u>	<u>Source in Phillipston to confluence with Chickering Brook, Phillipston</u>		<u>B</u>	<u>Cold Water</u>

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TABLE 167
MILLERS RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Fish Brook	Source in Royalston to confluence with West Branch Tully River, Orange		B	Cold Water
Gate Hill Brook	Source in Wendell to confluence with Mormon Hollow Brook, Wendell		B	Cold Water
Hoyt Brook	Source in Phillipston to confluence with Beaver Brook, Phillipston		B	Cold Water
Jacks Brook	Source in Northfield to confluence with Keyup Brook, Erving		B	Cold Water
Kenny Brook	Source in Royalston to confluence with Millers River, Royalston		B	Cold Water
Keyup Brook	Source in Northfield to confluence with Millers River, Erving		B	Cold Water
Lyons Brook	From the outlet of Ruggles Pond, Wendell, to confluence with the Millers River, Montague	entire length	B	Cold Water
Mormon Hollow Brook	Source in Wendell to confluence with Millers River, Wendell		B	Cold Water
Packard Brook	Source in Erving to confluence with Millers River, Erving		B	Cold Water
Rich Brook	Source in Royalston to confluence with Millers River, Athol		B	Cold Water
Thrower Brook	Source in Athol to inlet of South Athol Pond, Athol		B	Cold Water
Tully Brook	From MA-NH state line at Royalston to confluence with East Branch Tully River, Royalston		B	Cold Water
Wilson Brook	Source in Warwick to confluence with Darling Brook, Warwick		B	Cold Water

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¹Names cited in parentheses are unofficial, locally-used names

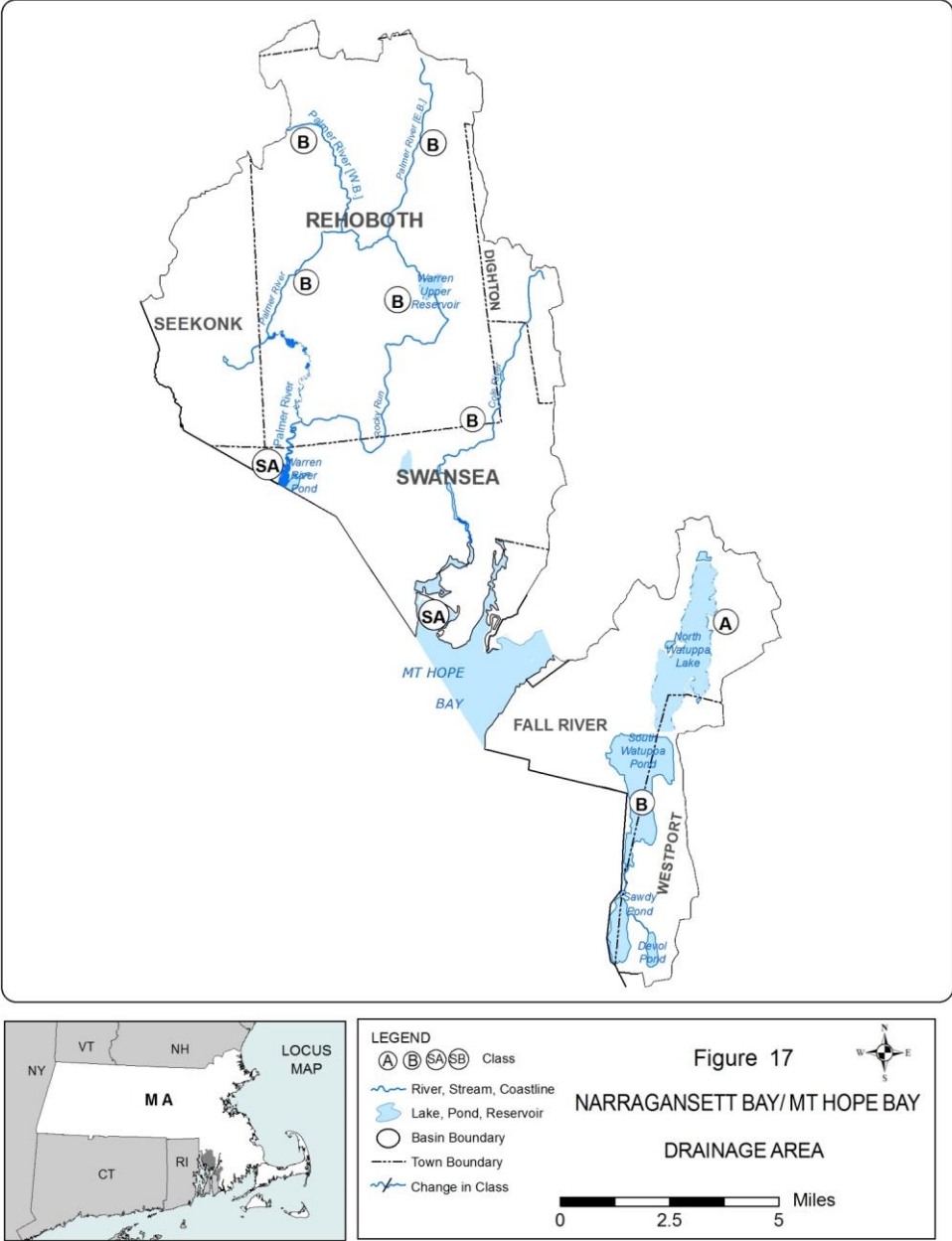
[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

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TABLE 137 NARRAGANSETT BAY/MOUNT HOPE BAY DRAINAGE AREA				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Barrington River	Source to <u>the MA-RI state borderline</u>	-	SA	Shellfishing
Palmer River	Source to <u>inlet of</u> Shad Factory Pond dam	-	B	Cold Water
	<u>From the outlet of</u> Shad Factory Pond dam to <u>the MA-RI state borderline</u>	<u>SB</u>	<u>SB</u> <u>Shellfishing</u>	<u>Shellfishing</u>
Mount Hope Bay	East of <u>a straight</u> line from Brayton Point to Buoy 4	-	SB	Shellfishing CSO
	West of <u>a straight</u> line from Brayton Point to Buoy 4	-	SA	Shellfishing
Lee and Cole Rivers	Source to estuary	-	B	Warm Water
	Estuary	-	SA	Shellfishing
Quequechan River	Entire <u>l</u> -length	2.5 - 0.0	B	Warm Water CSO
North Watuppa Pond	<u>Source</u> <u>Entire pond</u> to outlet in Fall River and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> <u>PWS</u> <u>ORW</u>
Shad Factory Pond Reservoir	<u>Entire pond to outlet in Rehoboth</u>		B	Treated Water Supply
<u>Warren Upper Reservoir</u> (Anawan Reservoir)	<u>Entire reservoir to outlet in Rehoboth</u>		B	Treated Water Supply
<u>Warren Reservoir</u> (Swansea Reservoir)	<u>Entire reservoir to outlet</u> in Swansea		B	Treated Water Supply

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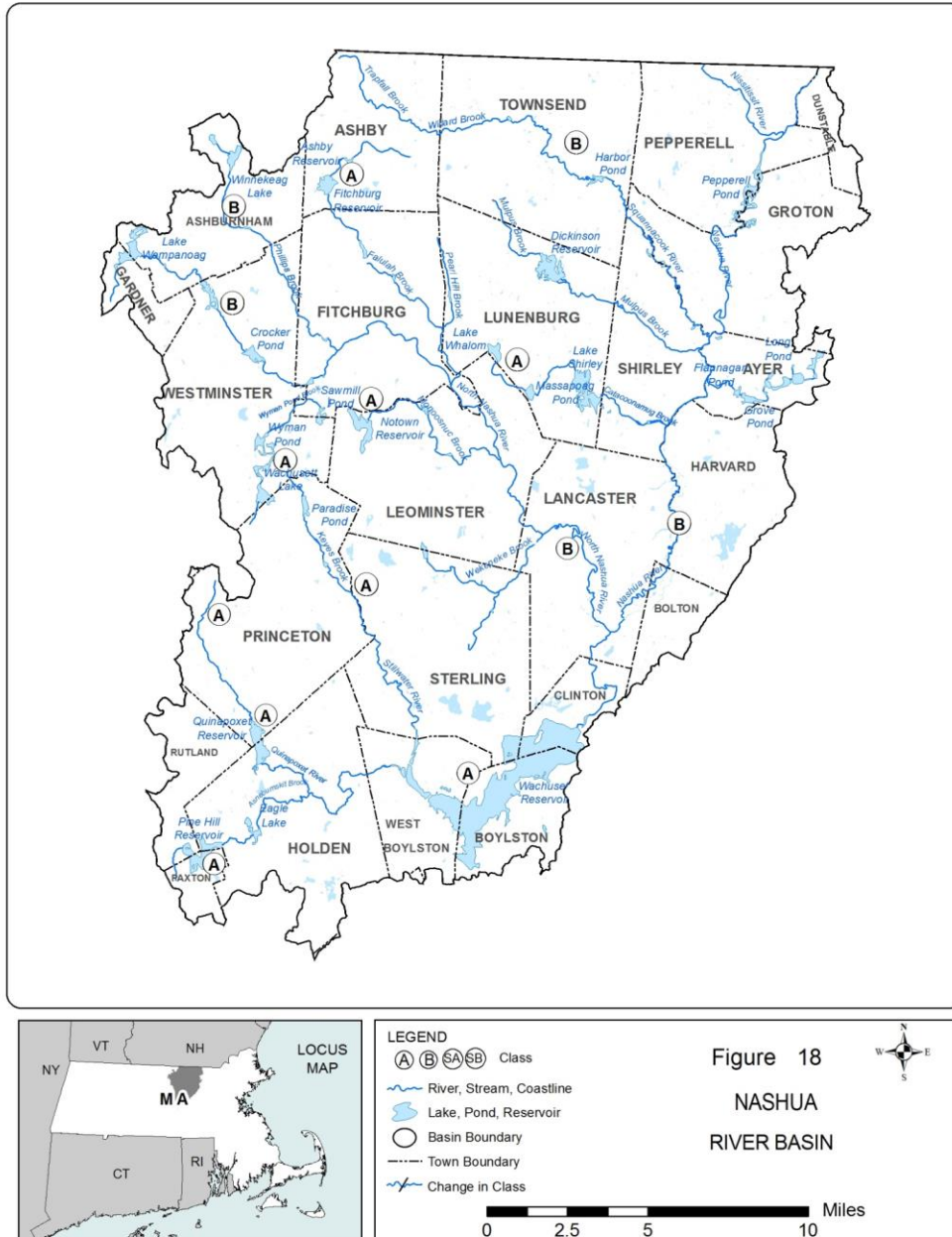
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¹Names cited in parentheses are unofficial, locally-used names

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronyms: CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

4.06: continued



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TABLE 178
NASHUA RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Nashua River	<u>From o</u> Outlet of Lancaster Millpond, <u>Clinton</u> , to confluence with <u>the</u> North Nashua River, <u>Lancaster</u> (this segment is also known as the South Branch Nashua River)	41.0 - 36.4	B	Warm Water
	<u>From c</u> Confluence with <u>the</u> North Nashua River, <u>Lancaster</u> , to Pepperell Dam, <u>Pepperell</u>	36.4 - 14.1	B	Warm Water
	<u>From the</u> Pepperell Dam, <u>Pepperell</u> , to <u>New Hampshire</u> the MA-NH state <u>line</u> , <u>Pepperell</u>	14.1 - 10.5	B	Warm Water
North Nashua River	Source to Leominster POTW <u>discharge</u>	54.8 - 48.5 <u>18.3 - 12.0</u>	B	Warm Water CSO
	<u>From the</u> Leominster POTW <u>discharge</u> to confluence with the Nashua River	48.5 - 36.5 <u>12.0 - 0.0</u>	B	Warm Water
Phillips Brook	<u>From</u> Fitchburg to confluence <u>with the North Nashua River, Fitchburg</u>	1.0 - 0.0	B	Warm Water CSO
Squannacook River	Source to Hollingsworth & Vose Dam, <u>Shirley</u> ²	14.3 - 3.3	B	Cold Water <u>Outstanding Resource Water</u> <u>ORW</u>
	<u>From the</u> Hollingsworth & Vose Dam, <u>Shirley</u> to confluence with <u>the</u> Nashua River ²	3.3 - 0.0	B	Warm Water

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Nissitissit River	From the MA-NH sState line, <u>Pepperell</u>, to confluence with <u>the Nashua River</u>²		B	Cold Water Outstanding Resource Water ORW
Baker Brook	In Fitchburg/Lunenburg, to confluence with the Nashua River, Fitchburg		B	CSO

TABLE 178
NASHUA RIVER BASIN (continued)

SURFACE WATER NAME ¹	SURFACE WATER OR SEGMENT BOUNDARY *	MILE POINT ²	CLASS	QUALIFIERS *
Unnamed stream (Punch Brook)	From CSO discharge (FIT082) at Oliver Street between Adams and Elm Street, Fitchburg, to confluence with the North Nashua River, Fitchburg (this entire segment is culverted)		B	CSO
Beaver Brook, Bixby, Locke, Mason, Mine, Pearl Hill, Pumpkin, Stewart, Sucker, Trap Swamp, Trapfall, Trout in Townsend, Walker, Willard, Witch, and Wolf Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	Outstanding Resource Water ORW
Bixby Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Locke Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW

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TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Mason Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Mine Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Pearl Hill Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Pumpkin Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Stewart Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Sucker Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Trap Swamp Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Trapfall Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Trout Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Walker Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW

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TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Willard Brook (includes Ashby Reservoir)</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary</u>		<u>B</u>	<u>ORW</u>
<u>Witch Brook</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary</u>		<u>B</u>	<u>ORW</u>
<u>Wolf Brook</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary</u>		<u>B</u>	<u>ORW</u>
Bayberry Hill Brook and Gulf Brook	Portion <u>with</u> in <u>the</u> Squannacook and Nissitissit Rivers Sanctuary		<u>B</u>	Cold Water Outstanding Resource Water <u>ORW</u>
<u>Gulf Brook</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary</u>		<u>B</u>	Cold Water <u>ORW</u>
Lovell Reservoir	<u>Entire reservoir Source</u> to outlet in Fitchburg and those tributaries thereto	-	A	<u>Public Water Supply PWS ORW</u>
Scott Reservoir	<u>Entire reservoir Source</u> to outlet in Fitchburg and those tributaries thereto	-	A	<u>Public Water Supply PWS ORW</u>
Wachusett Lake	<u>Entire lake Source</u> to outlet in Westminster and those tributaries thereto	-	A	<u>Public Water Supply PWS ORW</u>
Overlook Reservoir	<u>Entire reservoir Source</u> to outlet in Fitchburg and those tributaries thereto	-	A	<u>Public Water Supply PWS ORW</u>

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TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Falulah Reservoir	<u>Entire reservoir</u> Source to outlet in Fitchburg and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Muschopauge Pond (Muschopauge Pond Reservoir)	<u>Entire pond to outlet in Rutland and those tributaries thereto</u>	-	A	Public Water Supply <u>PWS ORW</u>
Notown Reservoir	<u>Entire reservoir</u> Source to outlet in Leominster and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Simonds Pond (Simonds Pond Reservoir)	<u>Entire pond</u> Source to outlet in Leominster and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Goodfellow Pond	<u>Entire pond</u> Source to outlet in Leominster and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Haynes Reservoir	<u>Entire reservoir</u> Source to outlet in Leominster and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Morse Reservoir	<u>Entire reservoir</u> Source to outlet in Leominster and those tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>
Distributing Reservoir	<u>Entire reservoir</u> Source to outlet in Leominster and those tributaries thereto	-	A	Public Water

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TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
				<u>Supply</u> PWS <u>ORW</u>
Fall Brook Reservoir	<u>Entire reservoir</u> Source to outlet in Leominster and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> PWS <u>ORW</u>
Meetinghouse Pond (Meeting House Reservoir)	<u>Entire pond</u> Source to outlet in Westminster and <u>those</u> tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> PWS <u>ORW</u>
Asnebumskit Pond	<u>Entire pond</u> Source to outlet in Paxton and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> PWS <u>ORW</u>
Fitchburg Reservoir	<u>Entire reservoir</u> Source to outlet in Ashby and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> PWS <u>ORW</u>
Kendall Reservoir	<u>Entire reservoir</u> Source to outlet in Holden and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> PWS <u>ORW</u>
Pine Hill Reservoir	<u>Entire reservoir</u> Source to outlet in Holden and those tributaries thereto	-	A	<u>Public Water</u> <u>Supply</u> PWS <u>ORW</u>

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TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Quinapoxet Reservoir	<u>Entire reservoir</u> Source to outlet in Holden and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Wachusett Reservoir	<u>Entire reservoir</u> Source to outlet in Clinton and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Shattuck Reservoir	Reservoir to outlet in Fitchburg and those tributaries thereto	-	A	Public Water Supply
Bixby Reservoir, and Coon Tree, Damon, Flat, Graves, Harbor, Heald, Pearl Hill Brook, Pork Barrel, and Walker Ponds, and Wright Pond (Lower Wright Pond & Upper Wright Pond)	Portion in within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	Outstanding Resource Water ORW
<u>Coon Tree Pond</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary, Pepperell</u>		<u>B</u>	<u>ORW</u>
<u>Damon Pond</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary, Ashby</u>		<u>B</u>	<u>ORW</u>
<u>Flat Pond</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary, Groton</u>		<u>B</u>	<u>ORW</u>
<u>Graves Pond</u>	<u>Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend</u>		<u>B</u>	<u>ORW</u>

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4.06: continued

TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Harbor Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Heald Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Pepperell		B	ORW
Pearl Hill Brook Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Pork Barrel Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Pepperell		B	ORW
Walker Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Wright Pond (Lower Wright Pond & Upper Wright Pond)	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Ashby		B	ORW
Ball Brook	Source in Holden to confluence with Stillwater River, Sterling		A	Cold Water PWS ORW
Bumbo Brook	Source in Paxton to inlet of Pine Hill Reservoir, Paxton		A	Cold Water PWS ORW
Unnamed Stream (Burnt Mill Pond Brook)	From outlet of Round Meadow Pond Dam, Westminster, to confluence with the Whitman River, Westminster	entire length	B	Cold Water

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TABLE 178
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Goodridge Brook</u>	<u>Entire length, Lancaster/Clinton</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Malden Brook</u>	<u>Source in West Bolyston to inlet of Wachusett Reservoir, West Bolyston</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
<u>Morse Brook</u>	<u>Source in Shirley to confluence with Nashua River, Shirley</u>		<u>B</u>	<u>Cold Water</u>
Mulpus Brook	<u>Source in Lunenburg to confluence with the Nashua River, Shirley</u> ²	<u>entire length</u>	<u>B</u>	Cold Water
<u>Ponakin Brook</u>	<u>Source in Lancaster to confluence with North Nashua River, Lancaster</u>		<u>B</u>	<u>Cold Water</u>
<u>Poor Farm Brook</u>	<u>Source to inlet of Chaffin Pond, Holden</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
Reedy Meadow Brook	<u>Source in Groton to confluence with the Nashua River, Pepperell</u> ⁴	<u>entire length</u>	<u>B</u>	Cold Water
<u>Scanlon Brook</u>	<u>Source in Sterling to confluence with Stillwater River, Sterling</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
South Meadow Brook	<u>From outlet of Fitch Pond, Sterling, to inlet of South Meadow Pond, Clinton</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 178 NASHUA RIVER BASIN (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Steam Mill Brook	Source in Princeton to confluence with Bartlett Pond Brook, Sterling		A	Cold Water PWS ORW
Still River	Source to Rte. 117, Bolton ³		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Squannacook and Nissitissit Rivers Sanctuary and/or the Squannassit Area of Critical Environmental Concern (ACEC)

³Note that all or a portion of these surface waters are within the Central Nashua River Valley ACEC

⁴Note that all or a portion of these surface waters are within the Petapawag ACEC

*Acronyms:

[CSO](#) = Combined Sewer Overflow
[ORW](#) = Outstanding Resource Water
[PWS](#) = Public Water Supply

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



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**TABLE 2319
NORTH- COASTAL DRAINAGE AREA**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Essex River</u>	<u>The coastal and marine portions of (The Essex River and those its tributaries thereto in the Town of Essex</u> ²	-	SA [‡]	Shellfishing Outstanding Resource Water ORW
<u>Ebben Creek, Lufkin, and Soginese Creek</u>	<u>Portion of the surface water within the Great Marsh Parker River/Essex Bay ACEC</u> [†]	-	SA	Shellfishing Outstanding Resource Water ORW
<u>Lufkin Creek</u>	<u>Portion of the surface water within the Great Marsh ACEC</u> [†]		<u>SA</u>	<u>Shellfishing</u> <u>ORW</u>
<u>Soginese Creek</u>	<u>Portion of the surface water within the Great Marsh ACEC</u> [†]		<u>SA</u>	<u>Shellfishing</u> <u>ORW</u>
<u>Essex Bay</u>		-	SA	Shellfishing Outstanding Resource Water ORW
<u>Castle Neck River</u>	<u>Portion in of the surface water within the Parker River /Essex BayGreat Marsh ACEC</u> [†]		SA	Shellfishing Outstanding Resource Water ORW
<u>Walker Creek, Lanes Creek and Farm Creek</u>		-	SA	Shellfishing Outstanding Resource Water ORW
<u>Lanes Creek</u>			<u>SA</u>	<u>Shellfishing</u> <u>ORW</u>

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Farm Creek			SA	Shellfishing ORW
Annisquam River			SA	Shellfishing

TABLE 2319
NORTH COASTAL DRAINAGE AREA (continued)

SURFACE WATER NAME¹	SURFACE WATER OR SEGMENT BOUNDARY*	MILE POINT²	CLASS	QUALIFIERS*
Rockport Harbor (including Back Harbor and a portion of Sandy Bay)	The waters landward from the boundary formed by a straight line drawn between Gully Point, Rockport, and Granite Pier, Rockport (including Back Harbor and a portion of Sandy Bay)	-	SB	Shellfishing
Gloucester Harbor		-	SB	Shellfishing CSO
Manchester Harbor		-	SB	Shellfishing
Beverly Harbor	The waters landward from the boundary formed by a straight line drawn between Juniper Point, Salem, to Hospital Point, Beverly (excluding the Danvers River).	-	SB	Shellfishing
Salem Harbor (including a portion of Salem Sound and Salem Channel)	The waters landward from the boundary formed by a straight line drawn from Naugus Head, Marblehead, to the northwest point of Bakers Island, Salem, to Hospital Point, Beverly, to Juniper Point, Salem (including a portion of Salem Sound and Salem Channel and excluding Forest River)	-	SB	Shellfishing

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TABLE 2319
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Marblehead Harbor		-	SA	Shellfishing
Massachusetts Bay		-	SA	Shellfishing
Nahant Bay		-	SA	Shellfishing CSO
Lynn Harbor		-	SB	Shellfishing CSO
Saugus River	Source to confluence with the Canal which discharges into Hawkes Pond <u>the Saugus River Dam</u>	13.6 - 10.5	BA	Treated Water Supply <u>PWS</u> <u>ORW</u>
	From confluence with the Canal which discharges into Hawkes Pond <u>the outlet of the Saugus River Dam to Saugus Iron Works/Bridge Street</u>	10.5 - 5.1	B	
	<u>From Saugus Iron Works/-Bridge Street to Boston Street</u> bB Bridge	5.1 - 3.1	SB	Shellfishing
	Boston Street bB Bridge to mouth ³	3.1 - 0.0	SB <u>Outstanding Resource</u>	Shellfishing Water CSO <u>ORW</u>
Pines River	Source to mouth <u>at confluence with the Saugus River and Lynn Harbor, Saugus/Revere</u> ³		SB	<u>Outstanding Resource</u> <u>Water</u> <u>ORW</u>
Diamond Creek			SA	<u>Outstanding Resource</u>

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TABLE 2319
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
				Water <u>ORW</u>
Spring Pond and Griswold Pond	Entire pond Source to outlet in Saugus ⁴	-	B	Outstanding Resource Water <u>ORW</u>
<u>Griswold Pond</u>	<u>Entire pond to outlet in Saugus</u> ⁴		<u>B</u>	<u>ORW</u>
Babson Reservoir	Entire reservoir Source to outlet in Gloucester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Haskell Pond (Haskell Reservoir)	Entire pond Source to outlet in Gloucester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Goose Cove Reservoir	Entire reservoir Source to outlet in Gloucester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Dykes Pond (Dykes Reservoir)	Entire pond Source to outlet in Gloucester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Wallace Pond (Wallace Reservoir)	Entire pond Source to outlet in Gloucester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Fernwood Lake	Entire lake Source to outlet in Gloucester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u>

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TABLE 2319
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
				<u>ORW</u>
Klondike Reservoir (Quarry Reservoir)	<u>Entire reservoir Source</u> to outlet in Gloucester <u>and those tributaries thereto</u>	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Hawkes Pond	<u>Entire pond Source</u> to outlet in Saugus and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Birch Pond	<u>Entire pond Source</u> to outlet in Saugus and Lynn and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Breeds Pond	<u>Entire pond Source</u> to outlet in Lynn and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Walden Pond	<u>Entire pond Source</u> to outlet in Lynn and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Gravelly Pond	<u>Entire pond Source</u> to outlet in Hamilton and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Spring Pond	<u>Entire pond Source</u> to outlet in Peabody and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>

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4.06: continued

TABLE 2319
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Cape Pond	<u>Entire pond</u> Source to outlet in Rockport and <u>those</u> tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Quarry Reservoir (Carlson's Quarry)	<u>Entire reservoir</u> Source to outlet in Rockport and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Crystal Lake	<u>Entire lake</u> Source to outlet in Wakefield and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Great Marsh ACEC (formerly the Parker River/Essex Bay ACEC)

³Note that all or a portion of these surface waters are within the Rumney Marshes ACEC

⁴Note that all or a portion of these surface waters are within the Golden Hills ACEC

*Acronyms:

ACEC = Area of Critical Environmental Concern

CSO = Combined Sewer Overflow

ORW = Outstanding Resource Water

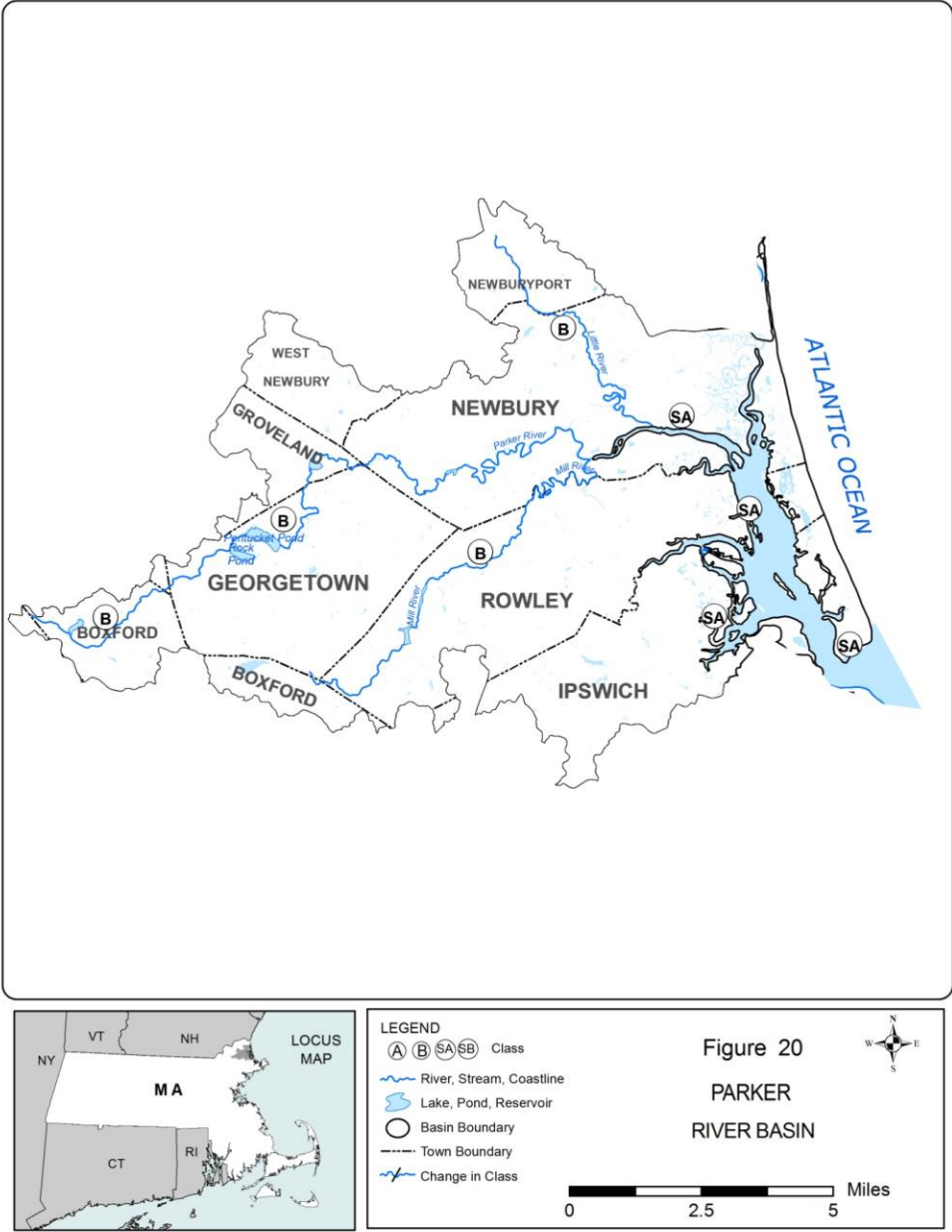
PWS = Public Water Supply

*marine waters Class SA

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

[†]Formerly the Parker River/Essex Bay ACEC

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TABLE 201
PARKER RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Parker River	Source <u>in Boxford</u> to tidal portion <u>east of Parker River Dam #1, Newbury</u>	23.1 - 9.0	B	Warm Water High Quality Water
	Tidal portion <u>east of Parker River Dam #1, Newbury, to confluence with Plum Island Sound</u> and <u>those</u> tributaries thereto ²	9.0 - 0.0	SA	Shellfishing Outstanding Resource Water ORW
Mill River	Source <u>in Boxford</u> to tidal portion and <u>those</u> tributaries thereto	9.6 - 2.3	B	Warm Water Outstanding Resource WaterORW
	Tidal portion and <u>those</u> tributaries thereto ²	2.3 - 0.0	SA, <u>B</u> **	Shellfishing Outstanding Resource WaterORW
Eagle Hill River	Entire length and <u>those</u> tributaries thereto ²	-	SA, <u>B</u> **	<u>ORW</u> Outstanding Resource Water
Third Creek	Entire <u>length</u> , Ipswich ²	-	SA, <u>B</u> **	<u>ORW</u> Outstanding Resource Water
Roger Island River	Entire length and <u>those</u> tributaries thereto ²	-	SA, <u>B</u> **	<u>ORW</u> Outstanding Resource Water

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Rowley River	Entire length and <u>those</u> tributaries thereto ²	-	SA, B**	<u>ORW</u> <u>Outstanding</u> <u>Resource Water</u>
Egypt River	Entire <u>length</u> , Ipswich/Rowley ²	-	SA, B**	<u>ORW</u> <u>Outstanding</u> <u>Resource Water</u>
Mud Creek	Entire length, <u>Newbury/Rowley</u> , and <u>those</u> tributaries thereto ²	-	SA, B**	<u>ORW</u> <u>Outstanding</u> <u>Resource Water</u>
<u>Bull Brook Reservoir</u>	<u>Reservoir to outlet in Ipswich and those tributaries thereto</u>	-	A	<u>Public Water</u> <u>Supply</u>
<u>Dow Brook Reservoir</u>	<u>Reservoir to outlet in Ipswich and those tributaries thereto</u>	-	A	<u>Public Water</u> <u>Supply</u>

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TABLE 240
PARKER RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Plum Island River	South of High Sandy sand bar to confluence with Plum Island Sound, <u>Newbury</u> ²		SA <u>Outstanding</u> <u>Resource</u> <u>Water</u>	Shellfishing <u>ORW</u>
<u>Pine Island Creek, Little Pine Island Creek and Jericho Creek</u>	<u>Entire length, Newbury</u> ²	-	SA*, B**	<u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>
<u>Jericho Creek</u>	<u>Entire length, Newbury</u> ²		<u>SA, B**</u>	<u>ORW</u>

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Plum Island Sound	Entire sound, Newbury/Rowley/Ipswich²		SA	Shellfishing Outstanding Resource Water ORW
Broad Creek, Carolton, Club Head, Laws, Lords, Metcalf, Paine, Sand, Sawyer, Shad, Six Goose, Stacy, and West Creek	Portion within the Great Marsh ACEC†, Ipswich Parker River/Essex Bay ACEC		SA	Outstanding Resource Water ORW
Carolton Creek	Portion within the Great Marsh ACEC†, Rowley		SA	ORW
Club Head Creek	Portion within the Great Marsh ACEC†, Rowley		SA	ORW
Laws Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Lords Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Metcalf Creek	Portion within the Great Marsh ACEC†, Ipswich		SA, B**	ORW
Paine Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Sand Creek	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW
Sawyer Creek	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW
Shad Creek	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW
Six Goose Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
TABLE 240 PARKER RIVER BASIN (continued)				
SURFACE WATER NAME¹	SURFACE WATER OR SEGMENT BOUNDARY*	MILE POINT‡	CLASS	QUALIFIERS*

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Stacy Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
West Creek	Portion within the Great Marsh ACEC†, Rowley		SA	ORW
Ox Pasture Brook	Portion within Parker River/Essex Bay the Great Marsh ACEC†, Rowley		SA, B**	Outstanding Resource Water ORW
Bull Brook Reservoir	Entire reservoir to outlet in Ipswich and those tributaries thereto		A	PWS ORW
Dow Brook Reservoir	Entire reservoir to outlet in Ipswich and those tributaries thereto		A	PWS ORW

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¹Names cited in parentheses are unofficial, locally-used names

²Note that all or portions of these surface waters are within the Great Marsh ACEC (formerly Parker River/Essex Bay ACEC)

*Acronyms:

[ACEC](#) = Area of Critical Environmental Concern

[ORW](#) = Outstanding Resource Water

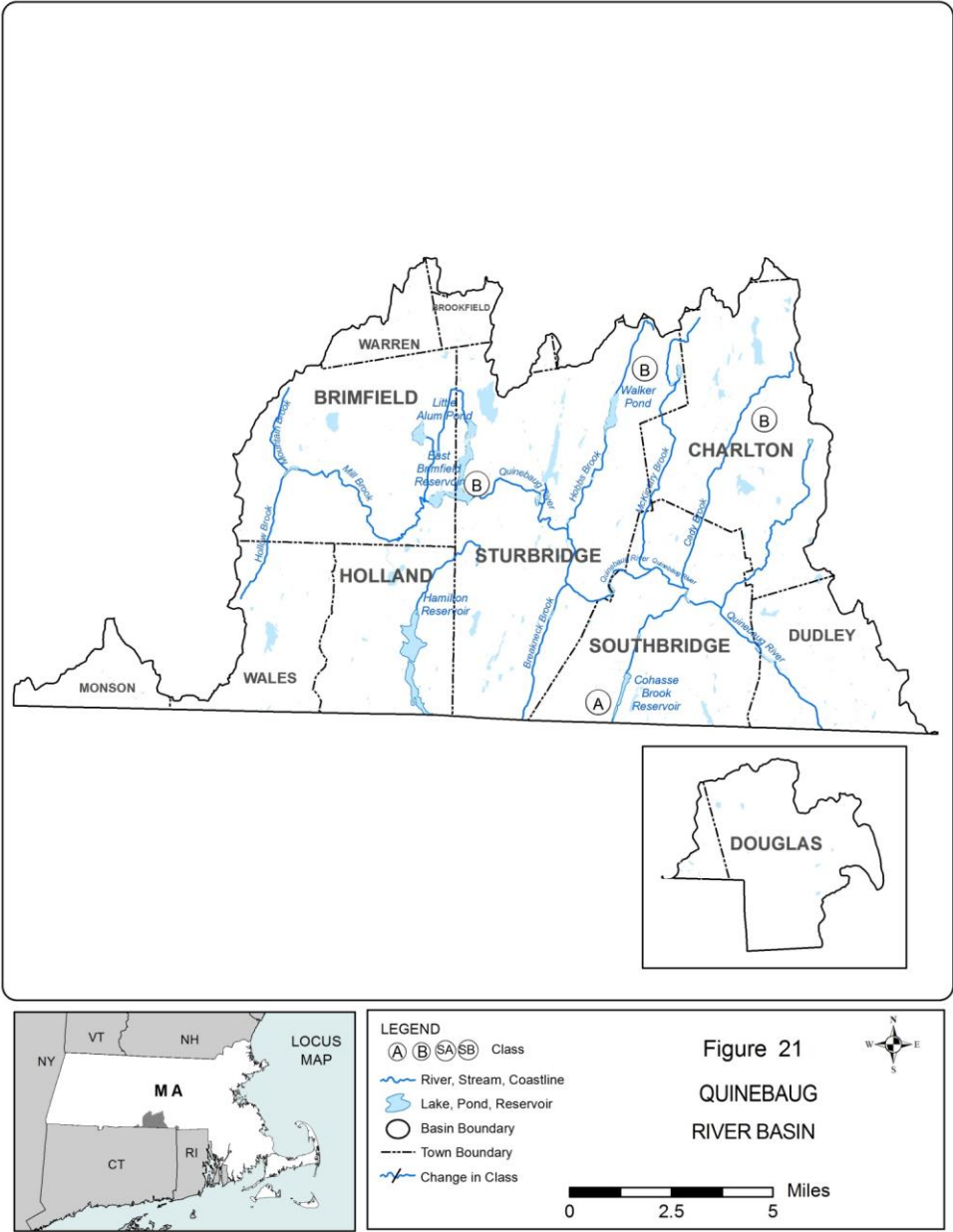
[PWS](#) = Public Water Supply

**[Coastal and -m](#)Marine waters Class SA; fresh waters Class B

[† Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth \(assigned a value of "0"\). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.](#)

[†Formerly Parker River/Essex Bay ACEC](#)

4.06: continued



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4.06: continued

TABLE 219
QUINEBAUG RIVER BASIN

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Quinebaug River	<u>From outlet of</u> Hamilton Reservoir <u>to Sturbridge</u> <u>WWTFPOTW discharge</u>	0.7 - 19.7	B	Cold Water High Quality Water
	<u>From</u> Sturbridge <u>WWTFPOTW discharge</u> <u>to</u> <u>confluence with</u> Cady Brook <u>confluence</u>	19.7 - 13.4	B	Cold Water
	<u>From confluence with</u> Cady Brook <u>confluence</u> <u>to</u> Southbridge <u>WWTFPOTW discharge</u>	13.4 - 12.2	B	Warm Water
	<u>From</u> Southbridge <u>WWTFPOTW discharge</u> <u>to</u> <u>MA-CT</u> state line	12.2 - 7.9	B	Warm Water
Cady Brook	<u>From</u> Outlet of Glen Echo Lake <u>to</u> Charlton City <u>WWTFPOTW discharge</u>	6.1 - 5.1	B	Warm Water High Quality Water
	<u>From</u> Charlton City <u>WWTFPOTW discharge</u> <u>to</u> confluence with Quinebaug River	5.1 - 0.0	B	Warm Water
Cohasse Brook Reservoir (Lo Cohasse Brook Reservoir)	Source <u>Entire reservoir</u> <u>to</u> outlet in Southbridge and those tributaries thereto	-	A	Public Water <u>SupplyPWS</u> <u>ORW</u>
No. 3 Reservoir (Hatchet Brook Reservoir #3)	Entire reservoir <u>Source</u> <u>to</u> outlet in Southbridge and those tributaries thereto	-	A	Public Water <u>SupplyPWS</u> <u>ORW</u>
Tufts Branch	<u>From source in Dudley to the MA-CT state line</u>	<u>entire length</u>	<u>B</u>	Cold Water

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¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

ORW = Outstanding Resource Water

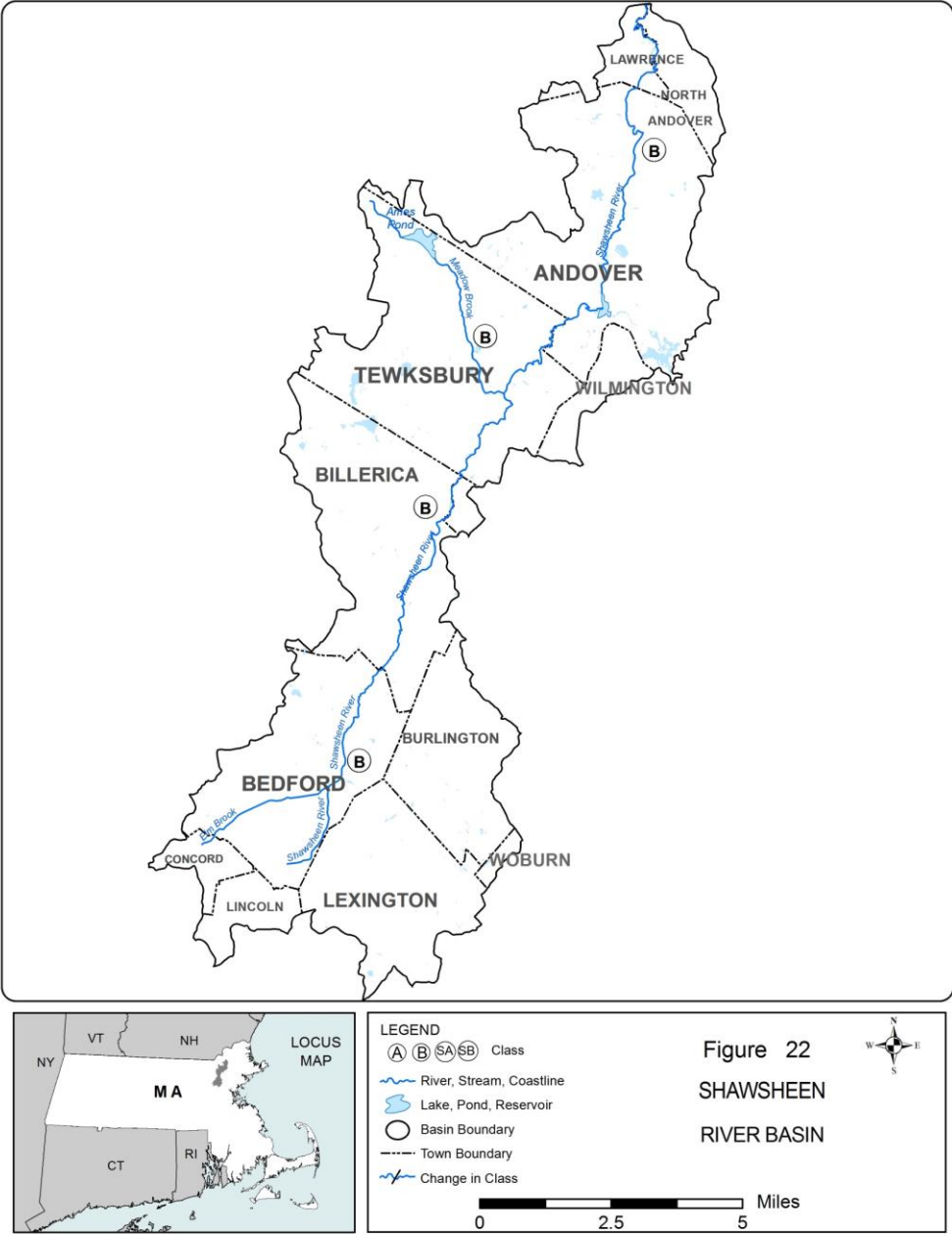
314 CMR: DIVISION OF WATER POLLUTION CONTROL

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PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



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4.06: continued

**TABLE 2249
SHAWSHEEN RIVER BASIN**

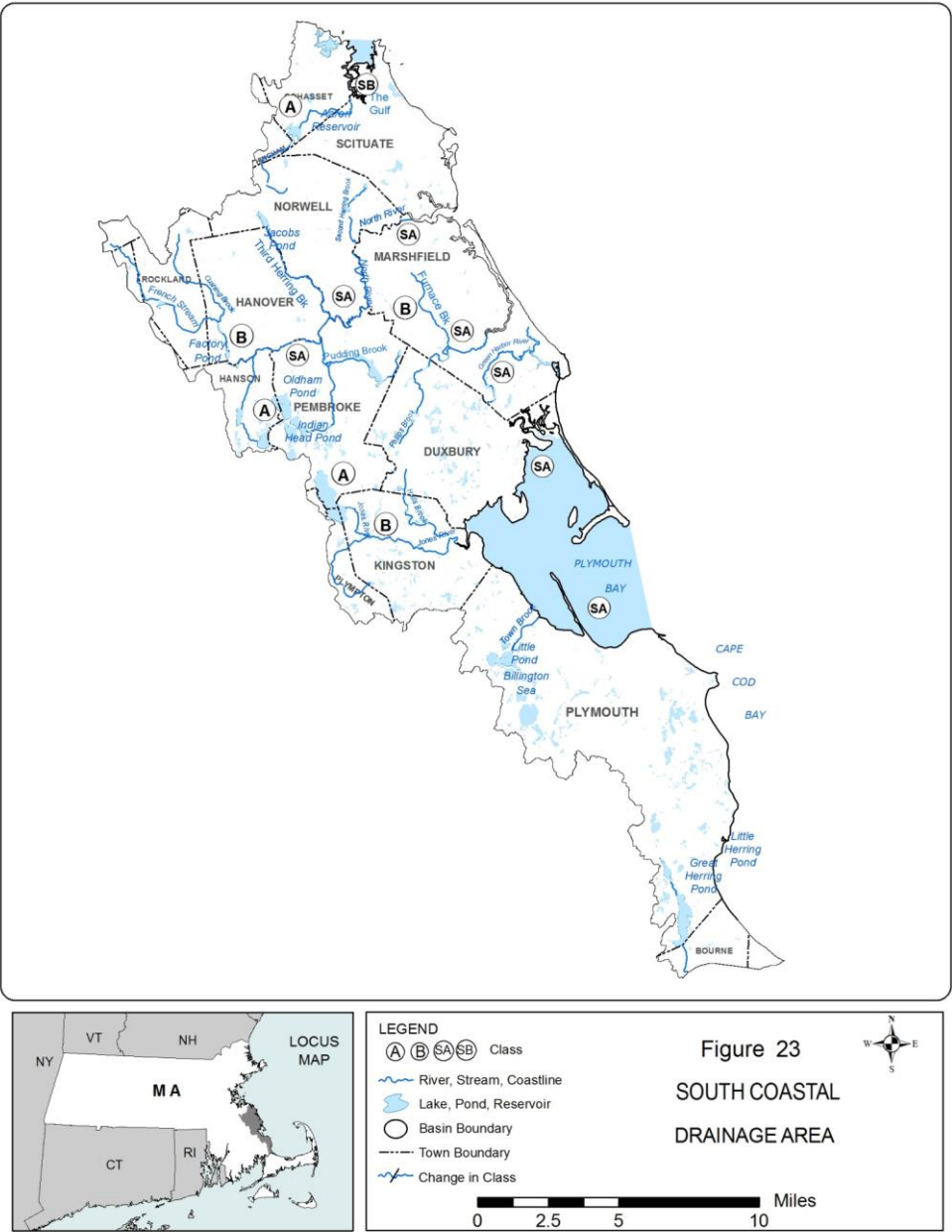
<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u>
Shawsheen River	Source to <u>drinking water withdrawal point intake</u> in Billerica (approximately Cook Street and Alexander Road)	25.0 - 18.0	B	Treated Water Supply Warm Water
	<u>From drinking water withdrawal point intake</u> in Billerica to confluence with the Merrimack River	18.0 - 0.0	B	Warm Water

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[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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4.06: continued

TABLE 243
SOUTH COASTAL DRAINAGE AREA

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Cohasset Harbor		-	SA	Shellfishing
Little Harbor		-	SA	Shellfishing
The Gulf		-	SB	Shellfishing
Scituate Harbor		-	SA	Shellfishing
French Stream	Entire <u>length, Rockland/Abington/Hanover</u>	<u>20.6 — 15.7</u>	B	Warm Water
Drinkwater River	Entire <u>length, Hanover</u>	<u>15.7 — 13.9</u>	B	Warm Water
Indian Head River	Source to Curtis Crossing Dam, <u>Hanover/Hanson/Pembroke</u>	-	B	Warm Water
	<u>From the</u> Curtis Crossing Dam to confluence with Herring Brook, <u>Hanover/Pembroke</u> ²		B	Warm Water <u>Outstanding Resource Water</u> <u>ORW</u>
North River	<u>From the</u> C confluence of Indian Head River and Herring Brook to <u>confluence with</u> Third Herring Brook ²	11.6 - 9.6	SA	Shellfishing <u>Outstanding Resource Water</u> <u>ORW</u>
	<u>From the confluence with</u> Third Herring Brook to Main Street, Marshfield ²	9.6 - 2.0	SA	Shellfishing <u>Outstanding Resource Water</u> <u>ORW</u>

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	Main Street, <u>Marshfield</u> to Massachusetts Bay	2.0 - 0.0	SA	Shellfishing
South River	Source <u>in Duxbury</u> to dam at Main Street, Marshfield ²		B	<u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>

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TABLE 243
SOUTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>South River (cont.)</u>	<u>From the dam at Main Street, Marshfield to confluence with North River, Marshfield</u> ²		SA	Shellfishing <u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>
Green Harbor		-	SA	Shellfishing
Jones River	Source to <u>former Wapping Road Dam Pond, Kingston</u>	7.0 - 3.4	B	Warm Water High Quality Water
	<u>From former Wapping Road Dam, Kingston, to Elm Street Dam, Kingston</u>	3.4 - 2.5	B	Warm Water
Cove <u>Brook, Herring, Iron Mine, Second Herring, Stony, and Third Herring Brook and Robinson Creek</u>	Portion <u>of this surface water within the North River Corridor, Marshfield</u> ²		<u>SA, B**</u>	<u>Outstanding</u> <u>Resource</u> <u>Water</u> <u>ORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 243
SOUTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
<u>Herring Brook</u>	<u>Portion of this surface water within the North River Corridor, Pembroke</u> ²		<u>SA, B**</u>	<u>ORW</u>
<u>Iron Mine Brook</u>	<u>Portion of this surface water within the North River Corridor, Hanover</u> ²		<u>SA, B**</u>	<u>ORW</u>
<u>Second Herring Brook</u>	<u>Portion of this surface water within the North River Corridor, Norwell</u> ²		<u>SA, B**</u>	<u>ORW</u>
<u>Stony Brook</u>	<u>Portion of this surface water within the North River Corridor, Norwell</u> ²		<u>SA, B**</u>	<u>ORW</u>
<u>Third Herring Brook</u>	<u>Portion of this surface water within the North River Corridor, Norwell</u> ²		<u>SA, B**</u>	<u>ORW</u>
<u>Robinson Creek</u>	<u>Portion of this surface water within the North River Corridor, Pembroke</u> ²		<u>SA, B**</u>	<u>ORW</u>
<u>Furnace Pond</u>	<u>Entire pond to outlet in Pembroke and those tributaries thereto</u>	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
<u>Silver Lake</u>	<u>Entire lake to outlet in Kingston and those tributaries thereto</u>		A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 243
SOUTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Mounce Pond	Portion of this surface water within the North River Corridor		SA, B**	Outstanding Resource Water ORW
Great Sandy Bottom Pond	Entire pond to outlet in Pembroke and those tributaries thereto	-	A	Public Water Supply PWS ORW
Great South Pond	Entire pond to outlet in Plymouth and those tributaries thereto	-	A	Public Water Supply PWS ORW
Lily Pond	Entire pond to outlet in Cohasset and those tributaries thereto		A	Public Water Supply PWS ORW
Little South Pond (South Pond)	Entire pond to outlet in Plymouth and those tributaries thereto	-	A	Public Water Supply PWS ORW
Old Oaken Bucket Pond (Herring Brook Pond)	Entire pond to outlet in Scituate and those tributaries thereto	-	A	Public Water Supply PWS ORW
Aaron River Reservoir	Entire reservoir to outlet in Cohasset and those tributaries thereto	-	A	Public Water Supply PWS ORW

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 243
SOUTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Abington Rockland Reservoir (Hingham Street Reservoir)	Entire rReservoir to outlet in Rockland and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Huldah Brook	Source in Marshfield to confluence with Pudding Brook, Pembroke		B	Cold Water

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¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the North River Corridor as defined by the “Scenic and Recreational River Protective Order for the North River”, issued pursuant to M.G.L. 21, § 17B, and Section 62 of Chapter 367 of the Acts of 1978.

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

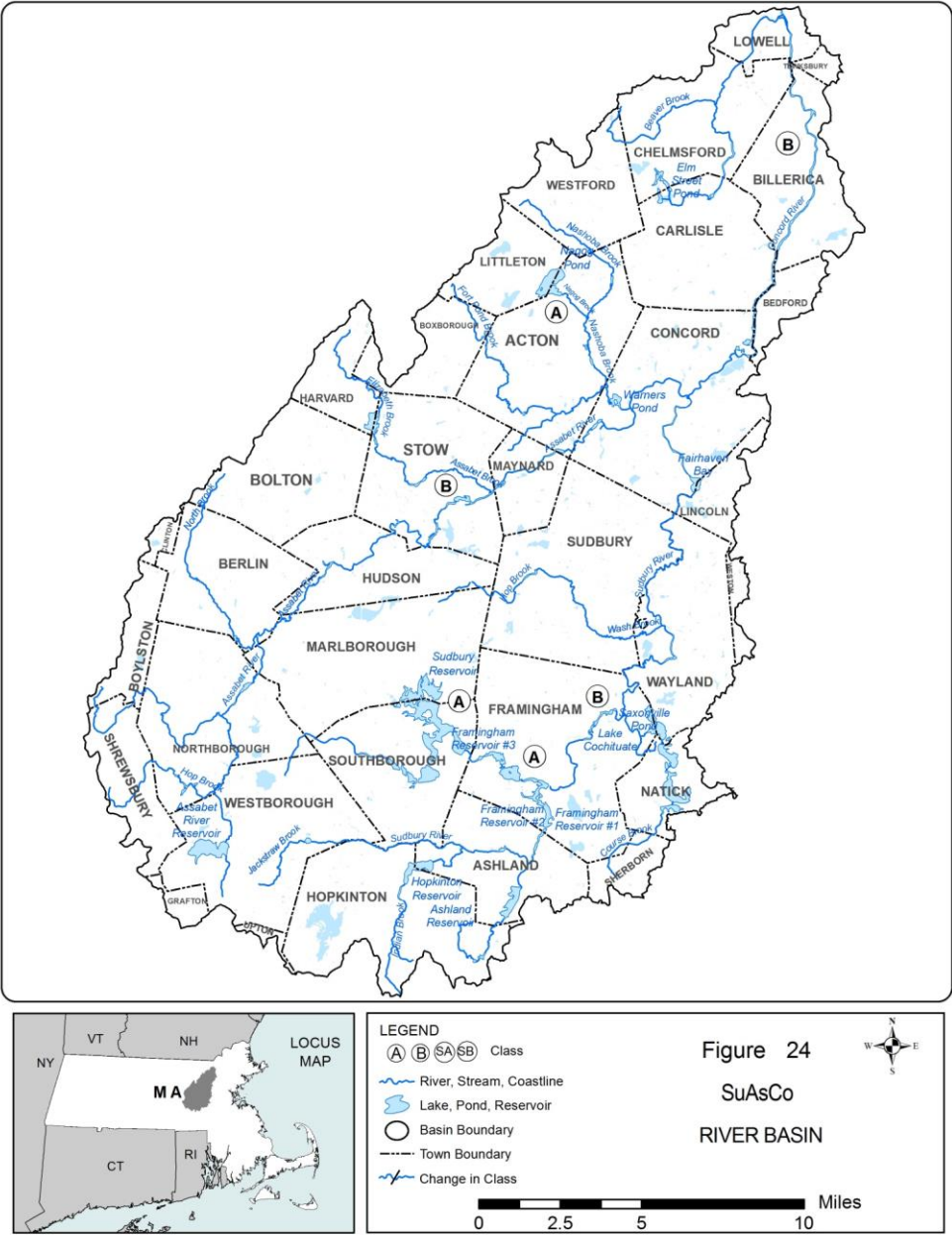
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

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TABLE 1824 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Sudbury River	<u>From outlet of Cedar Swamp Pond Source to Fruit Street Bridge in Hopkinton</u> ²	<u>Above 29.1</u>	B	Warm Water <u>Outstanding Resource Water</u> <u>ORW</u>
	<u>From Fruit Street Bridge, Hopkinton to Outlet of Saxonville Pond</u>	29.1 - 16.2	B	Warm Water High Quality Water
	<u>From Outlet of Saxonville Pond to confluence with Hop Brook, Wayland confluence</u>	16.2 - 10.6	B	Aquatic Life High Quality Water
	<u>From confluence with Hop Brook, Wayland confluence to confluence with the Assabet River forming the headwaters of the Concord River confluence</u>	10.6 - 0.00	B	Aquatic Life
Denney Brook, Jackstraw Brook, Picadilly Brook, Rutters Brook and Whitehall Brook	<u>Entire brook</u> ²	-	B	<u>Outstanding Resource Water</u> <u>ORW</u>
Jackstraw Brook	<u>Source in Westborough to Upton Road, first crossing south of Hopkinton Road, Westborough</u> ²		B	Cold Water ORW
	<u>From Upton Road, first crossing south of Hopkinton Road, Westborough, to the inlet of Cedar Swamp Pond, Westborough</u> ²		B	ORW
<u>Picadilly Brook</u>	<u>Entire brook</u> ²		<u>B</u>	<u>ORW</u>

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Rutters Brook	Entire brook²		B	ORW
Whitehall Brook	Entire brook²		B	ORW

TABLE 4824 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN (continued)				
SURFACE WATER NAME^{1*}	SURFACE WATER OR SEGMENT BOUNDARY*	MILE POINT[‡]	CLASS	QUALIFIERS*
Hop Brook	Source From Carding Mill Pond Dam to confluence with the Sudbury River confluence	9.7 - 0.0	B	Warm Water
Concord River	From cConfluence of Assabet and Sudbury Rivers to the Billerica Water Supply Intake	15.4 - 5.9	B	Warm Water Treated Water Supply
	From the Billerica Water Supply Intake to Rogers Street, Lowell	5.9 - 1.0	B	Warm Water
	From Rogers Street, Lowell to confluence with the Merrimack River	1.0 - 0.0	B	Warm Water CSO
Assabet River	Source to the Westborough WWTFPOTW discharge	31.8 - 30.4	B	Warm Water High Quality Water
	From the Westborough WWTFPOTW discharge to outlet to of Boones Pond (Lake Boon)	30.4 - 12.4	B	Warm Water
	From oOutlet of Boones Pond to confluence with the Sudbury River, forming the headwaters of the Concord River	12.4 - 0.0	B	Warm Water

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TABLE 1824 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
▲ Nagog Pond	Source <u>Entire pond</u> to outlet in Acton and those tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ Westborough Reservoir (Sandra Pond)	Source <u>Entire reservoir</u> to outlet in Westborough and those tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ Gates Pond (Gates Pond Reservoir)	Source <u>Entire pond</u> to outlet in Berlin <u>and those</u> tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ White Pond	Source <u>Entire pond</u> to outlet in Hudson and those tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ Millham Reservoir	Source <u>Entire reservoir</u> to outlet in Marlborough and those tributaries <u>thereto</u>	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ Lake Williams Reservoir (Williams Lake)	Source <u>Entire reservoir</u> to outlet in Marlborough and those tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ Sudbury Reservoir	<u>Entire reservoir</u> in Westborough, Marlborough, Southborough, <u>and</u> Framingham and those tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>
▲ MWRA Open Canal	Entire length and those tributaries thereto	-	A	Public Water <u>Supply</u> PWS <u>ORW</u>

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TABLE 1824 <u>SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN (continued)</u>				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
(Wachusett Aqueduct)				<u>ORW</u>
Framingham Reservoir No. 3	<u>Entire r</u> Reservoir to outlet in Framingham and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Cedar Swamp Pond	<u>Portion</u> The portion of the surface water within the Westborough Cedar Swamp ACEC		<u>B</u>	<u>Outstanding Resource Water</u> <u>ORW</u>
<u>Pine Brook</u>	<u>Source in Wayland to confluence with Sudbury River, Wayland</u>		<u>B</u>	<u>Cold Water</u>
<u>Sheep Fall Brook</u>	<u>Source in Marlborough to confluence with Flagg Brook, Marlborough</u>		<u>B</u>	<u>Cold Water</u>
Unnamed tributary- to Assabet River	<u>Entire length from source south of Athens St. in Stow to confluence with the Assabet River, Stow</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Jacksaw Brook</u>	<u>Source to Upton Rd 1st crossing south of Hopkington Rd.</u>			<u>Cold Water</u>

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¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Westborough Cedar Swamp ACEC

*Acronyms:

ACEC = Area of Critical Environmental Concern

CSO = Combined Sewer Overflow

MWRA = Massachusetts Water Resources Authority

ORW = Outstanding Resource Water

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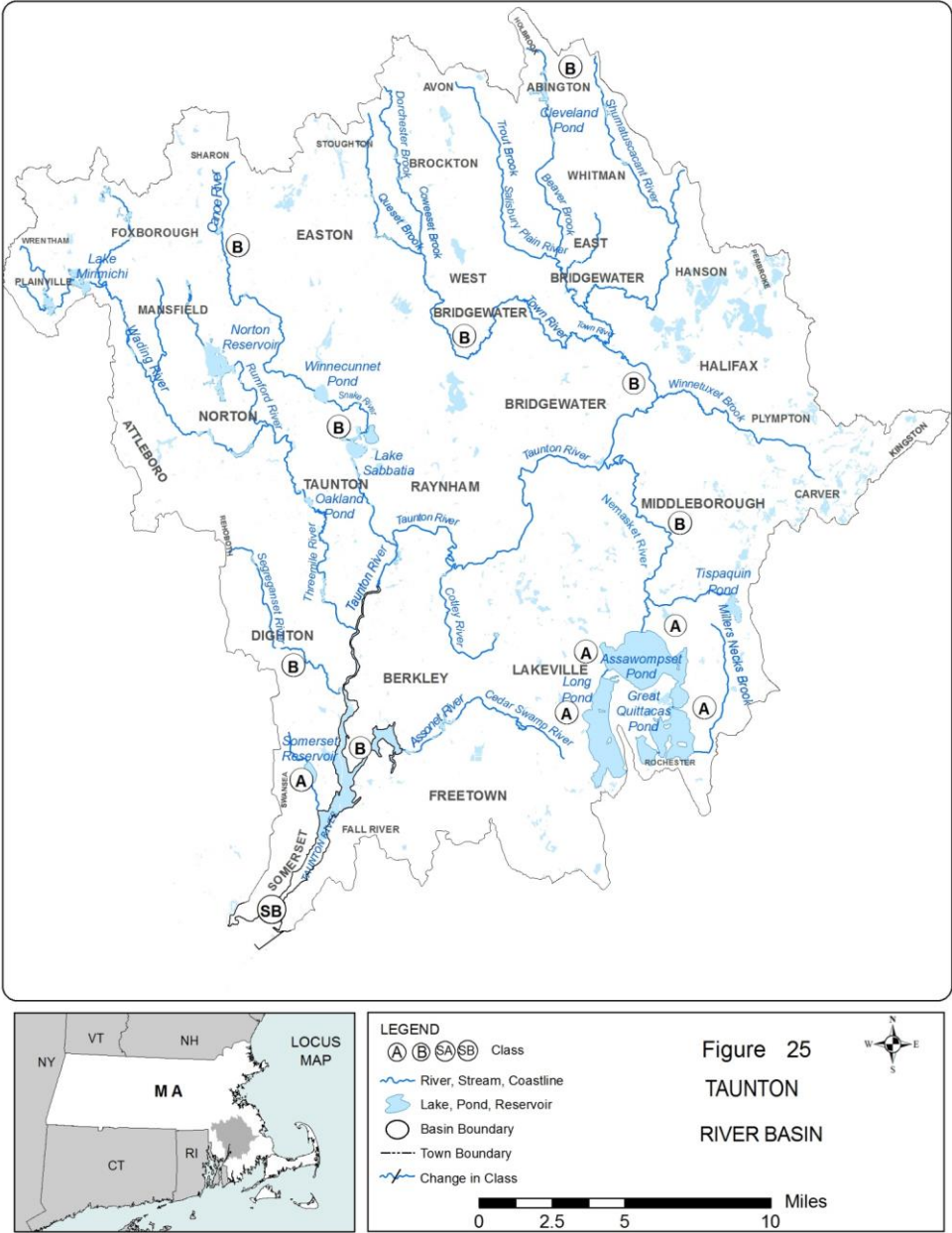
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PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 1425
TAUNTON RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Taunton River	Source From confluence with the Town River to Rt. 24 Bridge	40.8 - 21.2	B	Warm Water
	From Rt. 24 Bridge to its mouth at confluence with Mt. Hope Bay	21.2 - 0.0	SB	Shellfishing CSO
Salisbury Plain & Matfield Rivers	From Brockton WWTP POTW discharge to confluence with the Matfield River, East Bridgewater	-	B	Warm Water
Matfield River	From confluence with the Salisbury Plain River, East Bridgewater, to confluence with the Town River, East Bridgewater		B	Warm Water
Town River	From Bridgewater WWTP POTW discharge to confluence with the Matfield and Taunton Rivers	2.4 - 0.0	B	Warm Water
Nemasket River	From Middleborough WWTP POTW discharge to confluence with the Taunton River	-	B	Warm Water
Saw Mill Brook	Entire Length	1.5 - 0.0	B	Warm Water
Mill River	From Outlet of Lake Sabbatia, Taunton, to confluence with the Taunton River	3.4 - 0.0	B	Warm Water
Three Mile River	Source to confluence with the Taunton River	15.8 - 0.0	B	Warm Water
Wading River (Attleboro Reservoir)	Source to water supply PWS intake in Mansfield and those tributaries thereto		A	Public Water Supply PWS ORW

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TABLE 1425
TAUNTON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Wading River (Attleboro Reservoir) (cont.)	From water supply intake, Mansfield to confluence with Three Mile River B		B Warm Water	Warm Water
Assawompset Pond	Source-Entire pond to outlet in Lakeville and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Great Quittacas Pond	Source-Entire pond to outlet in Lakeville and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Little Quittacas Pond	Source-Entire pond to outlet in Lakeville and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Long Pond	Source-Entire pond to outlet in Lakeville and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Pocksha Pond	Source-Entire pond to outlet in Lakeville and those tributaries thereto	-	A	Public Water SupplyPWS ORW
Somerset Reservoir	Source-Entire reservoir to outlet in Somerset and those tributaries thereto, including Segreganset River from pumping station, Dighton, to source	-	A	Public Water SupplyPWS ORW
Monponsett Pond	Source-Entire pond to outlet in Halifax and those tributaries thereto (inclusive of east and west basins; feeder to Silver Lake water supply listed in the South Coastal drainage area)	-	A	Public Water SupplyPWS ORW

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TABLE 1425 TAUNTON RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Elders Pond	<u>Source-Entire pond</u> to outlet in Lakeville and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>
Brockton Reservoir (Avon Reservoir, Salisbury Brook Reservoir)	<u>Entire r</u> Reservoir to outlet in Avon and those tributaries thereto	-	A	<u>Public Water Supply</u> <u>PWS</u> <u>ORW</u>

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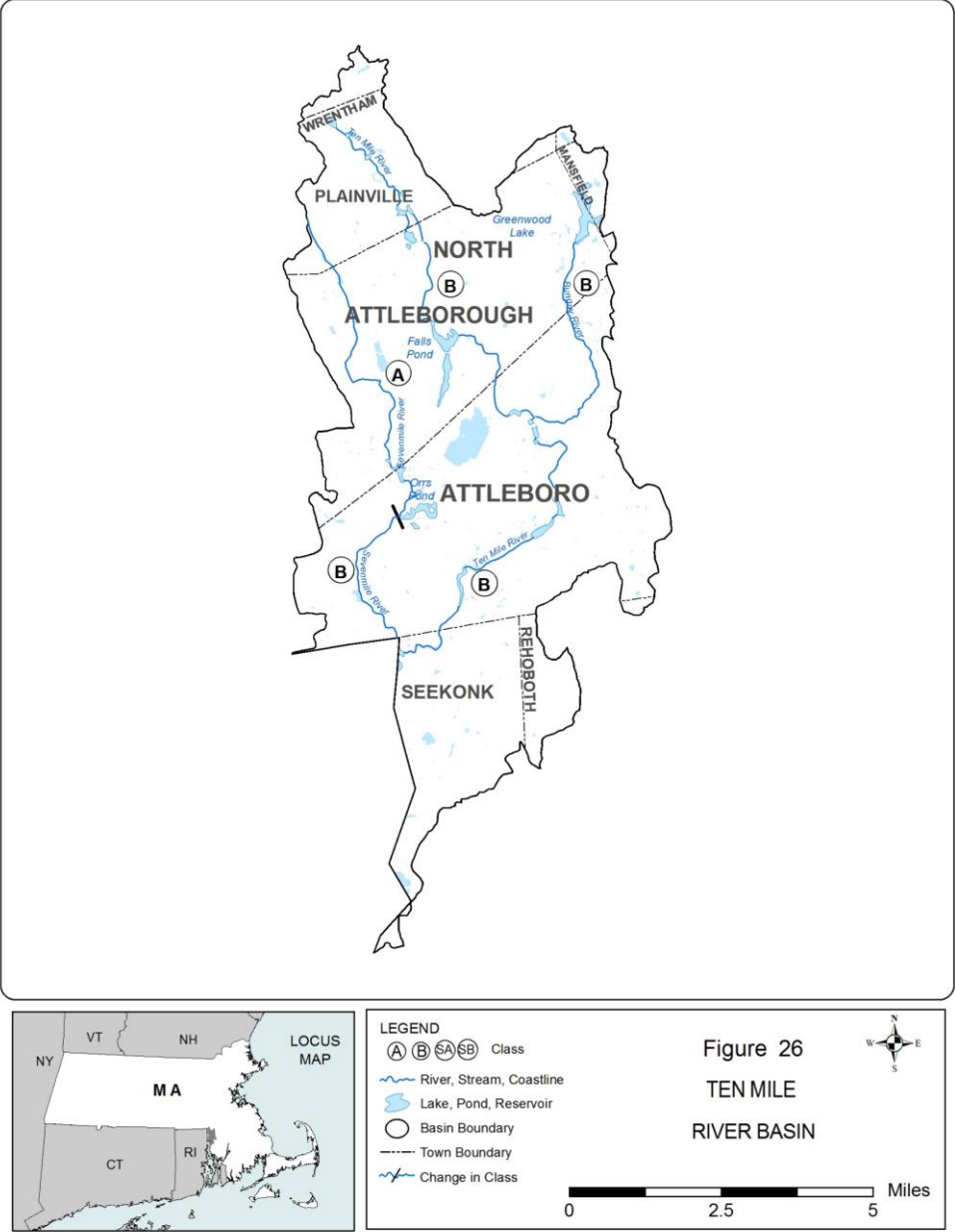
¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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**TABLE 2642
TEN-MILE RIVER BASIN**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ten Mile River	Source to Plainville Center <u>West Bacon Street, Plainville</u>	23.1 - 19.9	B	Warm Water High Quality Water
	<u>From West Bacon Street, Plainville Center</u> to Whiting Pond Dam	19.9 - 19.3	B	Warm Water High Quality Water
	<u>From</u> Whiting Pond Dam to <u>MA-RI</u> state line	19.3 - 0.0	B	Warm Water
Bungay River	Entire length <u>North Attleborough/Attleboro</u>	4.5 - 0.0	B	Warm Water
Speedway Brook (or Thacher Brook)	Entire length <u>Attleboro</u>	2.0 - 0.0	B	Warm Water
Orrs Pond (Sevenmile River, <u>City Pond</u> , <u>Upper Pond</u> , Orrs Reservoir)	Source-Entire pond to outlet <u>Orrs Pond outlet in Attleboro</u> and <u>those</u> tributaries thereto	-	A	Public Water Supply <u>PWS ORW</u>

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¹Names cited in parentheses are unofficial, locally-used names

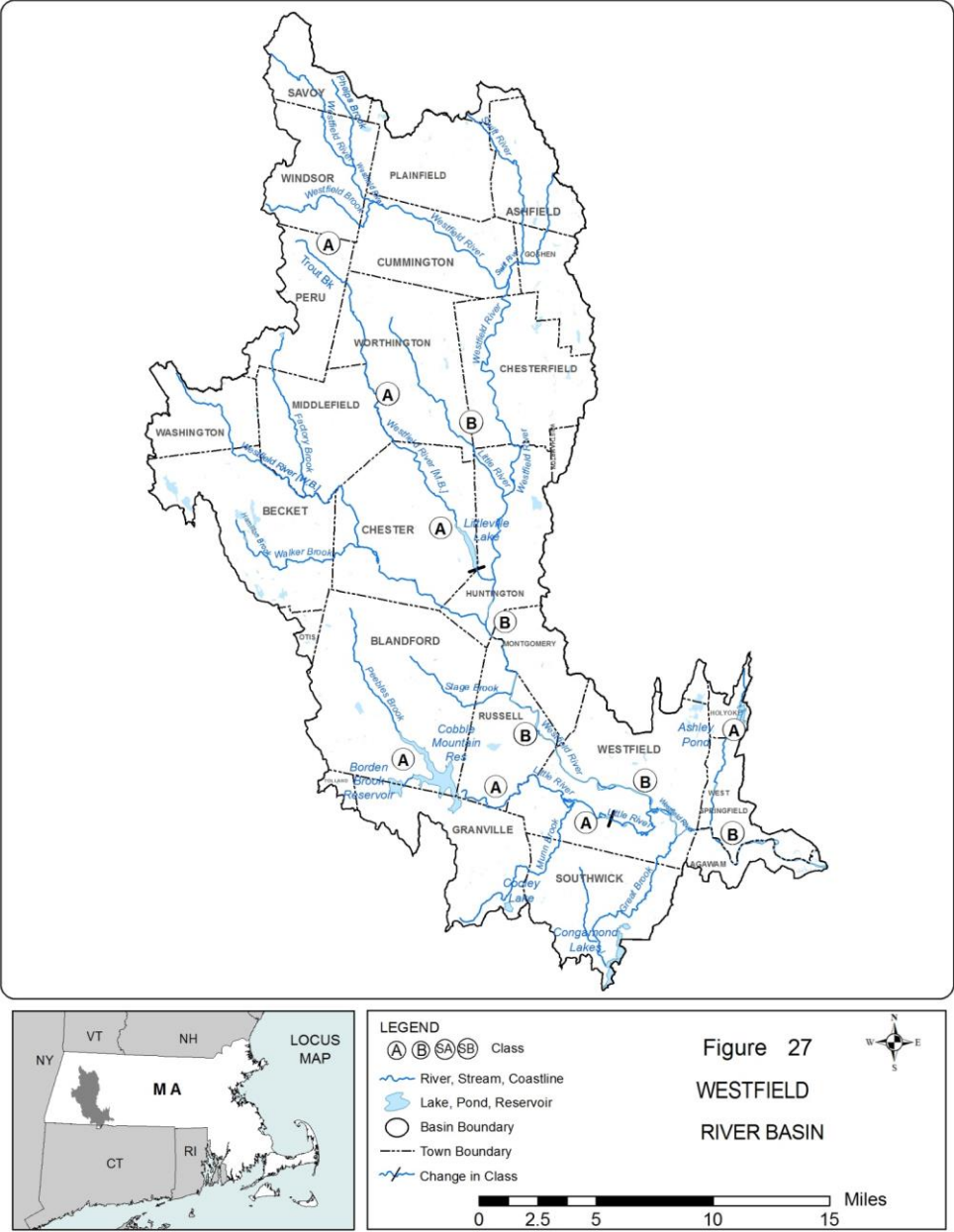
[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

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**TABLE 427
WESTFIELD RIVER BASIN**

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Middle Branch Westfield River	Source to Kinnebrook Road, Dayville	Above 3.0	A	Cold Water PWS ORW
	From Kinnebrook Road, Dayville Source to Littleville Dam, Chester/Huntington (inclusive of Littleville Lake) and those tributaries thereto	27.1 + 18.03.0 - 1.0	A	Public Water Supply PWS ORW
	From outlet of Littleville Dam to confluence with the Westfield River	27.1 + 1.0 - 0.0	B	Warm Water High Quality Water
West Branch Westfield River	Source to Chester Center	25.0 + 17.5- 7.5	B	Cold Water High Quality Water
	From Chester Center to confluence with the Westfield River	25.0 + 7.5 - 0.0	B	Cold Water
Westfield River	Source to confluence with the Middle Branch Westfield River (includes the former segment of river known locally as the Westfield River East Branch)	62.5 - 27.1	B	Cold Water High Quality Water
	From cConfluence with the Middle Branch Westfield River to confluence with the Connecticut River	27.1 - 0.0	B	Warm Water
Westfield River East Branch	Source to confluence with Dead Branch			Cold Water

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Dead Branch <u>(Brook)</u>	<u>From o</u> Outlet of Long Pond to confluence with <u>the</u> East Branch Westfield River		<u>B</u>	Cold Water
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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Little River	<u>From</u> Cobble Mt. Reservoir Dam to hydroelectric dam <u>(this river is a tributary to a PWS)</u>		A	Cold Water Tributary to public water supply <u>PWS</u> <u>ORW</u>
	<u>From</u> Hydroelectric dam to confluence with Westfield River		B	Cold Water
Long Pond (Long Pond Reservoir, Tucker Healy Pond, Lincoln Pond)	Source to outlet in Blandford and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Unnamed Reservoir (Austin Brook Reservoir)	Source-Entire reservoir to outlet in Chester and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
Horn Pond (Horn Pond Reservoir)	Source-Entire pond to outlet in Becket and those tributaries thereto	-	A	Public Water Supply <u>PWS</u> <u>ORW</u>
<u>Huntington Reservoir</u> (Cold Brook Reservoir)	Source-Entire reservoir to outlet in <u>Huntington Blandford</u> and those tributaries thereto	-	A	Public Water Supply <u>ORW</u>

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Russell Reservoir (Lower Black Brook Reservoir)	Source <u>Entire reservoir</u> to outlet in Russell and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Bearhole Reservoir (Bearhole Brook Reservoir, Prudys Pond)	Source <u>Entire reservoir</u> to outlet in West Springfield and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Granville Reservoir	Source <u>Entire reservoir</u> to outlet in Granville and <u>those</u> tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Cobble Mt. Reservoir	Source <u>Entire reservoir</u> to outlet in Russell and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Intake Reservoir	<u>Entire reservoir</u> At <u>to outlet of</u> hydroelectric dam in Russell and <u>those</u> tributaries thereto		A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
<u>Unnamed Pond</u> (Sedimentation Basin, <u>Westfield Mountain Pond</u>)	<u>Entire pond northeast of the intersection of Gorge Rd and Granville Road in Westfield</u> At <u>and those</u> tributaries thereto		A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
Ashley Reservoir (Ashley Pond, Wright Pond, Cedar Reservoir)	Source <u>Entire reservoir</u> to outlet in Holyoke and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>
McLean Reservoir	Source <u>Entire reservoir</u> to outlet in Holyoke and those tributaries thereto	-	A	Public Water <u>Supply</u> <u>PWS</u> <u>ORW</u>

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Unnamed Reservoir (Upper Black Brook Reservoir)	Entire reservoir on Black Brook just west of Martin Phelps Road to outlet in Blandford and those tributaries thereto	-	A	Public Water Supply PWS ORW
Austin Brook Reservoir	and tributaries thereto		A	Public Water Supply
Littleville Lake (Littleville Reservoir)	and tributaries thereto		A	Public Water Supply
Abbott Brook	Entire length, Chester		B	Cold Water
Arm Brook	Source to inlet of unnamed impoundment upstream of Rte. 90 highway crossing, Southampton/Westfield		B	Cold Water
Ashley Brook	Source to confluence with Jacks Brook, Westfield		B	Cold Water
Austin Brook	Source in Becket to the inlet of Unnamed Reservoir (Austin Brook Reservoir)		A	Cold Water PWS ORW
Austin Brook (cont.)	From the outlet of Unnamed Reservoir (Austin Brook Reservoir) to confluence with Walker Brook, Chester		B	Cold Water
Barry Brook	Entire length, Holyoke/West Springfield/Westfield	entire length	B	Cold Water
Bartlett Brook	Entire length, Plainfield/Cummington	entire length	B	Cold Water

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Bearden Brook	Souce in Montgomery to confluence with Westfield River, Montgomery		B	Cold Water
Blair Brook	Source in Chester to confluence with West Branch Westfield River, Chester		B	Cold Water
Bronson Brook	Entire length, Cummington/Worthington	entire length	B	Cold Water
Bush Brook	Entire length, Westfield	entire length	B	Cold Water
Clear Brook	Source in Savoy to confluence with Windsor Jambs Brook, Windsor		B	Cold Water
Cone Brook	Source in Peru to confluence with Tuttle Brook, Peru (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Crow Brook	Source in Montgomery to confluence with Roaring Brook, Montgomery		B	Cold Water
Depot Brook	Entire length, Washington/Becket	entire length	B	Cold Water
Dickerson Dickinson Brook	Entire length, Granville	entire length	B	Cold Water
Factory Brook	Entire length, Peru/Middlefield	entire length	B	Cold Water
Florida Brook	Source in Huntington to confluence with Westfield River, Huntington		B	Cold Water

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Freeland Brook	Source in Blanford to confluence with Stage Brook, Russell		B	Cold Water
Fuller Brook	Entire length, Peru/Worthington	entire length	A	Cold Water PWS ORW
Geer Brook	Entire length, Peru/Middlefield	entire length	B	Cold Water
Hamilton Brook	Source in Becket to confluence with Walker Brook, Becket		B	Cold Water
Hollister Brook	Source in Granville to inlet of Granville Reservoir, Granville (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Horse Hill Brook	Source in Huntington to confluence with Roaring Brook, Huntington		B	Cold Water
Hume Brook	Source in Windsor to confluence with Westfield Brook, Windsor		B	Cold Water
Hundred Acre Brook	Source in Westfield to confluence with Little River, Westfield		B	Cold Water
Kearney Brook	Entire length, Cummington/Worthington	entire length	B	Cold Water
Kellog Brook	Entire length, Southwick/Westfield	entire length	B	Cold Water

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Kinne Brook	<u>Entire length, Worthington/Chester</u>	<u>entire length</u>	<u>A</u>	Cold Water <u>PWS</u> <u>ORW</u>
<u>Mica Mill Brook</u>	<u>Source in Chester to confluence with West Branch Westfield River, Chester</u>		<u>B</u>	<u>Cold Water</u>
Mill Brook (4)	<u>Entire length in Plainfield/Cumington to confluence with the Westfield River</u>	<u>entire length</u>	<u>B</u>	Cold Water
Miller Brook	<u>Entire length, Agawam</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Mongue Meadow Brook</u>	<u>Source in Windsor to confluence with Alder Meadow Brook, Windsor</u>		<u>B</u>	<u>Cold Water</u>
Munn Brook	<u>Entire length, Granville/Southwick/Westfield</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Otis Wait Brook</u>	<u>Source in Chester to confluence with West Branch Westfield River, Chester</u>		<u>B</u>	<u>Cold Water</u>
<u>Pittsinger Brook</u>	<u>Source in Huntington to confluence with Dead Branch Brook, Huntington</u>		<u>B</u>	<u>Cold Water</u>
<u>Pixley Brook</u>	<u>Source in Blandford to confluence with Peebles Brook, Blandford (this brook is a tributary to a PWS)</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
Pond Brook	<u>Entire length, Huntington</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT²</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Potash Brook	<u>Entire length, Blandford/Russell</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Powell Brook</u>	<u>Source in Cummington to confluence with Kearney Brook, Cummington</u>		<u>B</u>	<u>Cold Water</u>
Roaring Brook (1)	<u>Entire length in Huntington/Montgomery to confluence with the Westfield River</u>	<u>entire length</u>	<u>B</u>	Cold Water
Roaring Brook (2)	<u>Entire length in Chester/Huntington to confluence with the West Branch Westfield River</u>	<u>entire length</u>	<u>B</u>	Cold Water
Shaker <u>HM</u> ill Brook	<u>Entire length, Washington/Becket</u>	<u>entire length</u>	<u>B</u>	Cold Water
Shaw Brook	<u>Entire length, Windsor</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Skunk Brook</u>	<u>Source in Chester to confluence with Kinne Brook, Chester (this brook is a tributary to a PWS)</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
<u>Smith Brook</u>	<u>Source to confluence with Middle Branch Westfield River, Chester (this brook is a tributary to a PWS)</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
<u>Sodum Brook</u>	<u>Source in Russell to confluence with Little River, Russell</u>		<u>B</u>	<u>Cold Water</u>
Stage Brook	<u>Entire length, Russell</u>	<u>entire length</u>	<u>B</u>	Cold Water
Steep Bank Brook	<u>Entire length, Windsor</u>	<u>entire length</u>	<u>B</u>	Cold Water

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TABLE 427
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ²	<u>CLASS</u>	<u>QUALIFIERS</u> *
Stones Brook	<u>Entire length, Ashfield/Goshen</u>	<u>entire length</u>	<u>B</u>	Cold Water
Swift River	<u>Entire length, Hawley/Ashfield/Goshen/Cummington</u>	<u>entire length</u>	<u>B</u>	Cold Water
Swift River North Branch	<u>Entire length, Plainfield/Ashfield/Cummington</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Sykes Brook</u>	<u>Source in Chester to confluence with Westfield River, Huntington</u>		<u>B</u>	<u>Cold Water</u>
<u>Tannery Brook</u>	<u>Source in Blanford to confluence with Bedlam Brook, Blandford (this brook is a tributary to a PWS)</u>		<u>A</u>	<u>Cold Water</u> <u>PWS</u> <u>ORW</u>
Tower Brook	<u>Entire length, Cummington/Worthington/Chesterfield</u>	<u>entire length</u>	<u>B</u>	Cold Water
Walker Brook	<u>Entire length, Becket/Chester</u>	<u>entire length</u>	<u>B</u>	Cold Water
West Branch (Brook)	<u>Entire length, Worthington/Chesterfield</u>	<u>entire length</u>	<u>B</u>	Cold Water
Westfield Brook	<u>Entire length, Windsor/Cummington</u>	<u>entire length</u>	<u>B</u>	Cold Water
White Brook	<u>Entire length, Agawam</u>	<u>entire length</u>	<u>B</u>	Cold Water
<u>Whitmarsh Brook</u>	<u>Source in Cummington to confluence with Bronson Brook, Worthington</u>		<u>B</u>	<u>Cold Water</u>
<u>Wolf Brook</u>	<u>Source in Cummington to confluence with Westfield Brook, Cummington</u>		<u>B</u>	<u>Cold Water</u>

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TABLE 427 WESTFIELD RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Yokum Brook	<u>Entire length, Becket</u>	<u>entire length</u>	<u>B</u>	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

[‡] Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 28
SITE SPECIFIC CRITERIA

<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY-OR, TOWN OR RIVER MILE**†</u>	SITE-SPECIFIC CRITERIA	
			<u>Pollutant</u>	<u>Criteria††</u>
BLACKSTONE RIVER BASIN	Auburn Pond	Auburn	Total Phosphorus	0.025 mg/L
	Blackstone River	<u>From the Upper Blackstone POTW discharge 45.2 to 20.0 (the MA-RI state line (river mile 45.2 to 20.0))</u>	Copper	<u>Acute¹</u> : 25.7 <u>µg/L</u> <u>Chronic²</u> : 18.1 <u>µg/L</u>
	Brierly Pond	Millbury	Total Phosphorus	0.025 mg/L
	Curtis Pond North	Worcester	Total Phosphorus	0.025 mg/L
	Curtis Pond South	Worcester	Total Phosphorus	0.025 mg/L
	Dorothy Pond	Millbury	Total Phosphorus	0.025 mg/L
	Eddy Pond	Auburn	Total Phosphorus	0.015 mg/L
	Flint Pond	Grafton, Worcester, <u>Shrewsbury</u>	Total Phosphorus <u>Shrewsbury</u>	0.012 mg/L

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	Green Hill Pond	Worcester	Total Phosphorus	0.025 mg/L
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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
<u>BLACKSTONE RIVER BASIN (cont.)</u>	Howe Reservoir (<u>West Basin</u>)	Millbury	Total Phosphorus	0.025 mg/L
	Indian Lake	Worcester	Total Phosphorus	0.027 mg/L
	Jordan Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Lake Quinsigamond	Worcester, Shrewsbury	Total Phosphorus	0.012 mg/L
	Leesville Pond	Auburn, Worcester	Total Phosphorus	0.040 mg/L
	Mill Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Mumford River	<u>From the Douglas POTW discharge (to confluence with the Blackstone River) (river mile 9.0 to 0.0)</u>	Copper	<u>Acute¹</u> : 25.7 <u>µg/L</u> <u>Chronic²</u> : 18.1 <u>µg/L</u>
	Newton Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Pondville Pond	Auburn	Total Phosphorus	0.025 mg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
<u>BLACKSTONE RIVER BASIN (cont.)</u>	Salisbury Pond	Worcester	Total Phosphorus	0.0455 mg/L
	Shirley Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Smiths Pond	Leicester	Total Phosphorus	0.020 mg/L
	Southwick Pond	Leicester	Total Phosphorus	0.010 mg/L
	Stoneville Pond	Auburn	Total Phosphorus	0.025 mg/L
	Unnamed tributary to West River	Upton 0.2-0.0	Copper	acute 25.7 µg/L chronic 18.1 µg/L
	West River	8.8 to 0.0 From the Upton POTW discharge to (confluence with Blackstone River (river mile 8.8 to 0.0))	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
BUZZARDS BAY <u>COASTAL DRAINAGE AREA</u>	Unnamed Brook	River mile 0.75 to 0.0 (The unnamed brook located approximately ¼-mile northeast of and parallel to Aucoot Creek, from the Marion POTW discharge in Marion to confluence with Aucoot Cove) (river mile 0.75 to 0.0)	Copper (confluence with Aucoot Cove)	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

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TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
<u>CAPE COD DRAINAGE AREA Stage Harbor System</u>	<u>Little Mill Pond</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
<u>CAPE COD COASTAL DRAINAGE AREA Stage Harbor System</u>	<u>Mill Pond</u>	<u>Chatham. Criterion applies at mid-channel of the outlet of Mill Pond (which is a part of the Mitchell River), approximately 350 meters upstream of Bridge Street Bridge (Lat. 41.67191; Long. -69.95974167). If criterion is met, it will also protect Little Mill Pond and Mitchell River.</u>	<u>Total Nitrogen</u>	<u>0.38 mg/L</u>
	<u>Oyster Pond</u>	<u>Chatham. Criterion applies at approximately mid-channel between Long Point and the point off the end of Woodcarver Knoll Rd (Lat. 41.6787192; Long. -69.97749022). If criterion is met, it will also protect Stetson Cove, Oyster Pond River and Stage Harbor.</u>	<u>Total Nitrogen</u>	<u>0.38 mg/L</u>
	<u>Mitchell River</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
	<u>Oyster River</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
	<u>Stage Harbor</u>	<u>Chatham.</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
<u>Sulphur Springs System</u>	<u>Bucks Creek</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
	<u>Cockle Cove Creek</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
<u>CAPE COD COASTAL DRAINAGE AREA Sulphur Springs System</u>	<u>Harding Beach Pond (locally known as Sulphur Springs)</u>	<u>Pond to outlet to Bucks Creek, Chatham. Criterion applies at lower end of Harding Beach Pond in open water, near the outlet to</u>	<u>Total Nitrogen</u>	<u>0.38 mg/L</u>

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
		<u>Bucks Creek (Lat. 41.67365; Long. -70.00000278). If criterion is met, it will also protect Bucks Creek.</u>		
<u>Taylor's Pond System</u>	<u>Mill Creek</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.38 mg/L</u>
<u>CAPE COD COASTAL DRAINAGE AREA</u> <u>Taylor's Pond System</u>	<u>Taylor's Pond</u>	<u>Chatham. Criterion applies at the eastern side of the pond, approximately 60 meters from shore (Lat. 41.677769; Long. -70.016989). If criterion is met, it will also protect Mill Creek.</u>	<u>Total Nitrogen</u>	<u>0.38 mg/L</u>
<u>Bassing Harbor System</u>	<u>Bassing Harbor</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.527-0.552 mg/L</u>
	<u>Crows Pond</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.527-0.552 mg/L</u>
	<u>Frost Fish Creek</u>	<u>Chatham</u>	<u>Nitrogen</u>	<u>0.527-0.552 mg/L</u>
<u>CAPE COD COASTAL DRAINAGE AREA</u> <u>Bassing Harbor System</u>	<u>Ryder Cove (Inner and Outer Ryder Cove)</u>	<u>Chatham. Criterion applies at two locations: 50 meters from the eastern shore, adjacent to Woodland Way Circle (Lat. 41.708384; Long. -69.981777) and Mid-channel of Ryder Cove at narrows (adjacent to Rover Run Rd) approximately 0.6 kilometers upstream of outlet to Bassing Harbor (Lat. 41.706554; Long. -69.973544). If criterion is met at these two locations, it will also protect Bassing Harbor, Crows Pond, and Frost Fish Creek.</u>	<u>Bioactive Nitrogen‡</u>	<u>0.527160-0.552 mg/L*</u>
* The nitrogen criteria for the Bassing Harbor System are interim criteria unless, based on its assessment of Pleasant Bay, the Department determines that the nitrogen criteria for the Bassing Harbor System should remain in effect.				

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
CAPE COD COASTAL DRAINAGE AREA Muddy Creek System	Lower Muddy Creek	Outlet of small unnamed pond south of Countryside Drive and north-northeast of Old Queen Anne Road to mouth at Pleasant Bay, Chatham. Criterion applies at mid-channel, approximately 200 meters upstream of Orleans Road Bridge (Lat. 41.71109; Long. -69.99653472)	Bioactive Nitrogen‡	0.552-210 mg/L
	Upper Muddy Creek	Chatham	Nitrogen	0.552 mg/L
CHARLES RIVER BASIN	Charles River	From the Milford POTW discharge to (new Charles River the Watertown Dam (river mile 73.4 to 9.8)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Unnamed Tributary to Stop River	1.5 to 0.0	Copper acute 25.7 µg/L chronic 18.1 µg/L	
CHARLES RIVER BASIN (cont.)	Stop River	From MCI-Norfolk Water Pollution Control Facility discharge to (confluence with Charles River (river mile 4.4 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Unnamed tributary to Charles River	Weston 0.3 to 0.0	Copper acute 25.7 µg/L chronic 18.1 µg/L	

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
CHICOPEE RIVER BASIN	Browning Pond	Oakham	Total Phosphorus	0.015 mg/L
	Dunn Brook	3.7 to 0.0 (confluence with Quaboag River)	Copper acute 25.7 µg/L chronic 18.1 µg/L	
	Long Pond	Springfield	Total Phosphorus	0.030 mg/L
	Mona Lake	Springfield	Total Phosphorus	0.030 mg/L
	Minechoag Pond	Ludlow	Total Phosphorus	0.030 mg/L
	Spectacle Pond	Wilbraham	Total Phosphorus	0.020 mg/L
	Sugden Reservoir	Spencer	Total Phosphorus	0.015 mg/L
	Wickaboag Pond	West Brookfield	Total Phosphorus	0.015 mg/L
CONNECTICUT RIVER BASIN	Aldrich Lake East	Granby	Total Phosphorus	0.030 mg/L
	Aldrich Lake West	Granby	Total	0.030 mg/L

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TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
			Phosphorus	
	Bachelor Brook	12.4 to 0.0 (<u>its mouth at the</u> confluence with Connecticut River, <u>South Hadley</u>)	Copper	<u>Acute¹</u> : 25.7 <u>µg/L</u> <u>Chronic²</u> : 18.1 µg/L
	Lake Warner	Hadley	Total Phosphorus	0.030 mg/L
	Lake Wyola	Shutesbury	Total Phosphorus	0.015 mg/L
	Leverett Pond	Leverett	Total Phosphorus	0.015 mg/L
	Loon Pond	Springfield	Total Phosphorus	0.030 mg/L
<u>FRENCH RIVER BASIN</u>	Buffumville Lake	Charlton	Total Phosphorus	0.015 mg/L
	Cedar Meadow Pond	Leicester	Total Phosphorus	0.015 mg/L
<u>FRENCH RIVER BASIN (cont.)</u>	Dresser Hill Pond	Charlton	Total Phosphorus	0.035 mg/L
	Dutton Pond	Leicester	Total Phosphorus	0.025 mg/L

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TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
	Gore Pond	Charlton, Dudley	Total Phosphorus	0.014 mg/L
	French River	River mile 27.3 to 7.0 (at the MA-CT state line, <u>Dudley/Webster</u>)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Granite Reservoir	Charlton	Total Phosphorus	0.015 mg/L
	Greenville Pond	Leicester	Total Phosphorus	0.025 mg/L
	Hudson Pond	Oxford	Total Phosphorus	0.015 mg/L
	Jones Pond	Charlton, Spencer	Total Phosphorus	0.015 mg/L
	Larner Pond	Dudley	Total Phosphorus	0.014 mg/L
<u>FRENCH RIVER BASIN (cont.)</u>	Lowes Pond	Oxford	Total Phosphorus	0.015 mg/L
	McKinstry Pond	Oxford	Total Phosphorus	0.015 mg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
	New Pond	Dudley	Total Phosphorus	0.014 mg/L
	Peter Pond	Dudley	Total Phosphorus	0.010 mg/L
	Pikes Pond	Charlton	Total Phosphorus	0.015 mg/L
	Robinson Pond	Oxford	Total Phosphorus	0.012 mg/L
	Rochdale Pond	Leicester	Total Phosphorus	0.025 mg/L
	Shepherd Pond	Dudley	Total Phosphorus	0.014 mg/L
	Texas Pond	Oxford	Total Phosphorus	0.025 mg/L
<u>FRENCH RIVER BASIN (cont.)</u>	Tobins (Mosquito) Pond	Dudley	Total Phosphorus	0.014 mg/L
	Wallis Pond	Dudley	Total Phosphorus	0.014 mg/L

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TABLE 28
SITE SPECIFIC CRITERIA (continued)

BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
HUDSON RIVER BASIN	Hoosic River (South Branch Hoosic River)	From Adams POTW discharge to 15.4 to 10.3 (state line) (confluence with the North Branch Hoosic River, North Adams (river mile 15.4 to 10.3)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
HOUSATONIC RIVER BASIN	Housatonic River	From Pittsfield POTW discharge to the MA-CT (state line, Sheffield (river mile 50.9 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
IPSWICH RIVER BASIN	Unnamed tributary (Greenwood Creek)	From Ipswich POTW discharge to (confluence with the Ipswich River, Ipswich (river mile 0.7 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
MILLERS RIVER BASIN	Beaver Flowage Pond	Royalston	Total Phosphorus	0.0125 mg/L
	Bents Pond	Gardner	Total Phosphorus	0.015 mg/L
	Bourne-Hadley Pond	Templeton	Total Phosphorus	0.015 mg/L
MILLERS RIVER BASIN (cont.)	Brazell Pond	Templeton	Total Phosphorus	0.015 mg/L
	Cowee Pond	Gardner	Total Phosphorus	0.0127 mg/L

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TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE</u> <u>**†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			<u>Pollutant</u>	<u>Criteria††</u>
	Davenport Pond	Petersham, Athol	Total Phosphorus	0.0127 mg/L
	Depot Pond	Templeton	Total Phosphorus	0.015 mg/L
	Ellis Pond	Athol	Total Phosphorus	0.015 mg/L
	Greenwood Pond	Templeton	Total Phosphorus	0.015 mg/L
	Greenwood Pond	Westminster	Total Phosphorus	0.0139 mg/L
	Hilchey Pond	Gardner	Total Phosphorus	0.019 mg/L
	Lake Denison	Winchendon	Total Phosphorus	0.015 mg/L
<u>MILLERS RIVER BASIN (cont.)</u>	Lake Monomonac	Winchendon	Total Phosphorus	0.0133 mg/L
	Lower Naukeag Lake	Ashburnham	Total Phosphorus	0.0145 mg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
	Millers River	38.5 to 0.0 (confluence with Connecticut River)	Copper acute 25.7 µg/L chronic 18.1 µg/L	
	Minott Pond	Westminster	Total Phosphorus	0.015 mg/L
	Minott Pond South	Westminster	Total Phosphorus	0.011 mg/L
	Otter River	9.5 to 0.0	Copper acute 25.7 µg/L chronic 18.1 µg/L	
	Parker Pond	Gardner	Total Phosphorus	0.015 mg/L
	Ramsdall Pond	Gardner	Total Phosphorus	0.015 mg/L
	Reservoir No. 1	Athol	Total Phosphorus	0.015 mg/L
	Reservoir No. 2	Phillipston, Athol	Total Phosphorus	0.0051 mg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA & WATERBODY</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, OR TOWN OR RIVER MILE **†</u>	SITE-SPECIFIC CRITERIA	
			<u>Pollutant</u>	<u>Criteria††</u>
	Riceville Pond	Petersham, Athol	Total Phosphorus	0.015 mg/L
<u>MILLERS RIVER BASIN (cont.)</u>	South Athol Pond	Athol	Total Phosphorus	0.015 mg/L
	Stoddard Pond	Winchendon	Total Phosphorus	0.015 mg/L
	Wallace Pond	Ashburnham	Total Phosphorus	0.0137 mg/L
	Ward Pond	Athol	Total Phosphorus	0.015 mg/L
	Whites Mill Pond	Winchendon	Total Phosphorus	0.015 mg/L
	Whitney Pond	Winchendon	Total Phosphorus	0.015 mg/L
	Wrights Reservoir	Gardner, Westminster	Total Phosphorus	0.0135 mg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
NASHUA RIVER BASIN	Bare Hill Pond	Harvard	Total Phosphorus	0.030 mg/L
<u>NASHUA RIVER BASIN (cont.)</u>	North Branch , Nashua River	<u>River mile 36.5 to 0.0 (its mouth at the confluence with the Nashua River, Lancaster)</u>	Copper	<u>Acute¹: 25.7 µg/L</u> <u>Chronic²: 18.1 µg/L</u>
	<u>Nashua River (South Branch), Squannacook River</u>	<u>The portion of the Nashua River from its confluence with the North Branch Nashua River, Lancaster, to 3.3 miles upstream, Clinton</u> <u>3.3 to 0.0 3.3 to 0.0</u> <u>(confluence with Nashua River)</u>	<u>Copper</u> <u>Zinc acute</u> <u>226.40</u> <u>µg/L @</u> <u>hardness 72</u> <u>mg/L</u>	<u>Acute¹: 25.7 µg/L</u> <u>Chronic²: 18.1 µg/L</u> <u>Chronic 228.25</u> <u>µg/L @ hardness</u> <u>72 mg/L</u>
	<u>Squannacook River</u>	<u>From 500 feet downstream of the outlet of the Squannacook River Reservoir Dam to</u> <u>(confluence with the Nashua River,</u> <u>Shirley/Groton</u> <u>(river mile 3.3 to 0.0)</u>	<u>Zinc</u>	<u>Acute¹: 167.2 µg/L</u> <u>@ 60 mg/L</u> <u>hardness</u> <u>Chronic²: 168.6</u> <u>µg/L @ 60 mg/L</u> <u>hardness</u>
	<u>Nashua River</u>	<u>(confluence with Nashua River)</u>		

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4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
PARKER RIVER BASIN	Mill River	2.54 to 0.0 (confluence with Parker River)	Copper	acute 25.7 µg/L chronic 18.1 µg/L
	Unnamed tributary to Mill River	Byfield (Governor's Academy WWTF discharge to confluence with Mill River)	Copper	acute 25.7 µg/L chronic 18.1 µg/L
QUINEBAUG RIVER BASIN	Cady Brook	From the Charlton POTW discharge to (confluence with the Quinebaug River, Southbridge (river mile 5.1 to 0.0))	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
QUINEBAUG RIVER BASIN	Quinebaug River	River mile 19.7 to 7.9 (at the MA-CT state line, Dudley)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
SHAWSHEEN RIVER BASIN	Unnamed tributary to Elm Brook	Lincoln 0.5 to 0.0	Copper	acute 25.7 µg/L chronic 18.1 µg/L
SOUTH COASTAL DRAINAGE AREA	French Stream	River mile 49.03.3 to 45.70.0 (its mouth at the confluence with the Drinkwater River, Hanover)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
SUASCO RIVER BASIN	Assabet River	River mile 30.4 to 0.0 (its mouth at the confluence with the Sudbury River, Concord)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Unnamed tributary to Hop Brook	Sudbury (Marlborough East WWTF discharge to confluence with Hop Brook)	Copper	acute 25.7 µg/L chronic 18.1 µg/L
	Hop Brook	13.1 to 0.0	Copper	acute 25.7 µg/L chronic

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
		(confluence with Sudbury River)	18.1 µg/L	
	Spencer Brook	1.8 to 0.0 (confluence with Assabet River)	Copper acute 25.7 µg/L chronic 18.1 µg/L	
	Sudbury River	10.6 to 0.0 (confluence with Assabet River)	Copper acute 25.7 µg/L chronic 18.1 µg/L	
	Lake Boon	Hudson, Stow	Total Phosphorus	0.020 mg/L
TAUNTON RIVER BASIN	Nemasket River	River mile 5.5 to 0.0 (its mouth at the confluence with the Taunton River, Middleborough)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Salisbury Plain River	River mile 2.0 to 0.0 (its mouth at the confluence with Beaver Brook, both surface waters forming the headwaters of the Matfield Taunton River, East Bridgewater)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Sawmill Brook	Bridgewater 1.6 to 0.0	Copper acute 25.7 µg/L chronic 18.1 µg/L	
	Three Mile River	River mile 6.0 to 0.0 (its mouth at the confluence with Mill the Taunton River, Dighton/Taunton)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Town River	River mile 2.2 to 0.0 (its mouth at the confluence with the Matfield River, both surface waters forming the headwaters of with the Taunton River, Bridgewater)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
BASIN/DRAINAGE AREA & WATERBODY	SURFACE WATER*	BOUNDARY, OR TOWN OR RIVER MILE **†	SITE-SPECIFIC CRITERIA	
			Pollutant	Criteria††
TEN MILE RIVER BASIN	Ten Mile River	River mile 14.0 to 0.0 (at the MA-RI state line, Seekonk)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
WESTFIELD RIVER BASIN	Westfield River	River mile 10.8 to 0.0 (its mouth at the confluence with the Connecticut River)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

*Names cited in parentheses are unofficial, locally-used names

**Acronyms:

MWRA = Massachusetts Water Resources Authority

POTW = Publicly-Owned Treatment Works

¹ The average ambient surface water pollutant concentration over any 1-hour period shall not exceed the acute criterion (Criterion Maximum Concentration or CMC) more than once during any three year period.

² The average ambient surface water pollutant concentration over any 4-day period shall not exceed the chronic criterion (Criterion Continuous Concentration or CCC) more than once during any three year period.

† A River Mile is a linear measurement that begins at the mouth of the river ("0.0" River Mile zero), and increases in an upstream direction along its path.

†† Copper and zinc criteria are dissolved concentrations

‡ Bioactive Nitrogen consists of ammonia, nitrate, nitrite, and particulate organic nitrogen (composed primarily of live and dead phytoplankton)

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The metals criteria listed above are for dissolved copper and dissolved zinc. TABLE 29: GENERALLY APPLICABLE CRITERIA

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Acrolein	107028	P	3 Standard CMC Frequency & Duration	3 Standard CCC Frequency & Duration	--	--	
Aesthetics			See 314 CMR 4.05(5)(a) narrative Minimum Criteria				
Aldrin	309002	P	1.5 Standard CMC Frequency & Duration	--	0.65 Standard CMC Frequency & Duration	--	

¹ Chemical Abstracts Service (CAS) Numbers, which are maintained in the CAS registry, are unique numeric identifiers for chemical substances. CAS is a division of the American Chemical Society.

² The Priority Pollutants are a subset of toxic pollutants for which EPA has published analytical test methods (see <https://www.epa.gov/eg/toxic-and-priority-pollutants-under-clean-water-act>). When they were originally established, such pollutants had to have been found in water with a frequency of occurrence of at least 2.5 percent, and had to have been produced in significant quantities, as reported in Stanford Research Institute's "1976 Directory of Chemical Producers, USA". The list of Priority Pollutants are published at 40 CFR Part 423, Appendix A.

³ Unless otherwise noted, the average ambient surface water pollutant concentration over any 1-hour period shall not exceed the CMC more than once during any three year period ("Standard CMC Frequency & Duration").

⁴ Unless otherwise noted, the average ambient surface water pollutant concentration over any 4-day period shall not exceed the CCC more than once during any three year period ("Standard CCC Frequency & Duration").

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<u>29a: AQUATIC LIFE CRITERIA</u>						
<u>POLLUTANT</u>	<u>CAS NUMBER¹</u>	<u>PRIORITY (P)²</u>	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Alkalinity</u>			==	20,000 <u>Where the background condition of alkalinity is lower than this value, the criterion cannot be lower than 25% of the background level.</u>	==	==

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³</u> <u>µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴</u> <u>µg/L</u>	<u>CMC³</u> <u>µg/L</u>	<u>CCC⁴</u> <u>µg/L</u>
<u>Aluminum</u>	<u>7429905</u>		<u>the default concentration for the applicable watershed specified in Appendix A</u> <u>or</u> <u>the calculated concentration using EPA's Aluminum Criteria Calculator V2.0 (Excel)</u> <u>However the criterion is determined, the Standard CMC Frequency and Duration applies.</u>	<u>the default concentration for the applicable watershed specified in Appendix A</u> <u>or</u> <u>the calculated concentration using EPA's Aluminum Criteria Calculator V2.0 (Excel)</u> <u>However the criterion is determined, the Standard CCC Frequency and Duration applies.</u>	<u>--</u>	<u>--</u>
			<u>1. Criteria are expressed as total recoverable metal in the water column.⁵</u> <u>2. EPA's Aluminum Criteria Calculator V2.0 (Excel) (the "Aluminum Calculator") shall mean the version of the Aluminum Calculator made available on DEP's website on <u>insert effective date of regulations</u>.⁶</u> <u>3. The Aluminum Calculator is a model used to develop criteria for aluminum. The input parameters for each calculation using this model shall consist of a concurrently collected set of pH, hardness and dissolved organic carbon (DOC) data, for the relevant location.⁷</u> <u>4. If the applicable default criterion is available in Appendix A and a calculated concentration is determined using the Aluminum Calculator for a relevant location, the calculated concentration determined by the Aluminum Calculator shall be the criteria.</u>			

⁵ The default criteria concentrations were derived using EPA's Final Aquatic Life Ambient Water Quality Criteria for Aluminum 2018 model (EPA-822-R-18-001).

⁶ At the time of promulgation of this regulation, EPA's website also contains a copy of the Aluminum Calculator.

⁷ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

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29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Ammonia	7664417		<p>the concentration determined using Tables 5a or 5b, as applicable, of EPA's "Aquatic Life Ambient Water Quality Criteria for Ammonia - Freshwater - 2013". EPA 822-R-18-002 (Ammonia Criteria, 2013)^{8,9}</p> <p>or</p> <p>the calculated concentration using the applicable equation provided in Appendix B</p> <p>However the criterion is determined, the Standard CMC Frequency & Duration applies</p>	<p>the concentration determined using Tables 5a or 5b of EPA's Ammonia Criteria, 2013^{8,9}</p> <p>or</p> <p>the calculated concentration using the applicable equation provided in Appendix B</p> <p>However the criterion is determined, the average ambient surface water concentration over any 30-day period shall not exceed the criterion more than once during any three year period and the average concentration over any 4-day period within those 30 days is not to exceed 2.5 times the criterion.</p>	<p>0.233 mg/L (as un-ionized (NH₃) ammonia)</p> <p>or</p> <p>the concentration of total ammonia (NH₃ + NH₄⁺) as provided in Table 2 of EPA's "Ambient Water Quality Criteria for Ammonia (Saltwater) - 1989". EPA 440/5-88-004 (Ammonia Criteria, 1989)⁸</p> <p>However the criterion is determined, the Standard CMC Frequency & Duration applies</p>	<p>0.035 mg/L (as un-ionized (NH₃) ammonia)</p> <p>or</p> <p>the concentration of total ammonia (NH₃ + NH₄⁺), as provided in Table 3 of EPA's Ammonia Criteria, 1989⁸</p> <p>However the criterion is determined, the Standard CCC Frequency & Duration applies</p>	<p>1. Fresh Water Criteria are expressed as total ammonia nitrogen (TAN).</p> <p>2. Fresh Water criteria derivation requires collection of a set of pH and temperature measurements for the relevant location.¹⁰</p> <p>3. Coastal and Marine criteria derivation using Table 2 or 3 of EPA's Ammonia Criteria, 1989 document requires collection of a set of pH, temperature and salinity measurements for the relevant location.¹⁰</p> <p>4. Conversion of Coastal and Marine un-ionized ammonia concentrations to total ammonia may be performed using the procedure described in the introduction to EPA's Ammonia Criteria, 1989, document.</p>

⁸ A copy of each referenced EPA publication may be located by searching by the referenced EPA document number on MassDEP's website.

⁹ The following are examples of criteria calculated using a pH of 7.0 and a temperature of 20°C: CMC = 17 mg/L, CCC = 1.9 mg/L.

¹⁰ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER¹</u>	<u>PRIORITY (P)²</u>	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Arsenic</u>	<u>7440382</u>		<u>340</u> <u>Standard CMC Frequency & Duration</u>	<u>150</u> <u>Standard CCC Frequency & Duration</u>	<u>69</u> <u>Standard CMC Frequency & Duration</u>	<u>36</u> <u>Standard CCC Frequency & Duration</u>
<u>BHC-gamma (Lindane)</u>	<u>58899</u>	<u>P</u>	<u>0.48</u> <u>Standard CMC Frequency & Duration</u>	<u>=</u> <u>Standard CCC Frequency & Duration</u>	<u>0.08</u> <u>Standard CMC Frequency & Duration</u>	<u>=</u> <u>Standard CCC Frequency & Duration</u>
<u>Bottom Pollutants or Alterations</u>			<u>See 314 CMR 4.05(5)(b) Minimum Criteria</u>			

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Cadmium</u>	<u>7440439</u>	<u>P</u>	<u>The calculated concentration using the hardness- dependent equation as provided in Appendix C.^{11,12}</u> <u>Standard CMC Frequency & Duration</u>	<u>The calculated concentration using the hardness- dependent equation as provided in Appendix C.^{11,12}</u> <u>Standard CCC Frequency & Duration</u>	<u>33</u> <u>Standard CMC Frequency & Duration</u>	<u>7.9</u> <u>Standard CCC Frequency & Duration</u>
<p><u>1. These criteria are expressed as dissolved metal in the water column.</u></p> <p><u>2. Hardness-dependent equations are used to develop the Fresh Water criteria for cadmium. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.</u></p> <p><u>3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u></p> <p><u>4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</u></p>						

¹¹ The following are examples of criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 0.49 µg/L and CCC = 0.09 µg/L.

¹² 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

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4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Carbaryl</u>	<u>63252</u>		<u>2.1</u> <u>Standard CMC Frequency & Duration</u>	<u>2.1</u> <u>Standard CCC Frequency & Duration</u>	<u>1.6</u> <u>Standard CMC Frequency & Duration</u>	<u>=</u> <u>Standard CCC Frequency & Duration</u>
<u>Chlordane</u>	<u>57749</u>	P	<u>1.2</u> ¹³ <u>Standard CMC Frequency & Duration</u>	<u>0.0043</u> ¹⁴ <u>Standard CCC Frequency & Duration</u>	<u>0.045</u> ¹³ <u>Standard CMC Frequency & Duration</u>	<u>0.004</u> ¹⁴ <u>Standard CCC Frequency & Duration</u>
<u>Chloride</u>	<u>16887006</u>		<u>860,000</u> <u>Standard CMC Frequency & Duration</u>	<u>230,000</u> <u>Standard CCC Frequency & Duration</u>	<u>=</u> <u>Standard CMC Frequency & Duration</u>	<u>=</u> <u>Standard CCC Frequency & Duration</u>
<u>Chlorine</u>	<u>7782505</u>		<u>19</u> <u>Standard CMC Frequency & Duration</u>	<u>11</u> <u>Standard CCC Frequency & Duration</u>	<u>13</u> <u>Standard CMC Frequency & Duration</u>	<u>7.5</u> <u>Standard CCC Frequency & Duration</u>
<u>Chlorpyrifos</u>	<u>2921882</u>		<u>0.083</u> <u>Standard CMC Frequency & Duration</u>	<u>0.041</u> <u>Standard CCC Frequency & Duration</u>	<u>0.011</u> <u>Standard CMC Frequency & Duration</u>	<u>0.0056</u> <u>Standard CCC Frequency & Duration</u>

¹³ The 1980 EPA CMC criterion was divided by 2 to obtain values more comparable to derivations using the 1985 EPA Guidelines.

¹⁴ The CCCs are based on the Final Residue Value (FRV) procedure.

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29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Chromium (III)	16065831	P	the calculated concentration using the hardness-dependent equation as provided in Appendix C^{15,16} Standard CMC Frequency & Duration	the calculated concentration using the hardness-dependent equation as provided in Appendix C^{15,16} Standard CCC Frequency & Duration	=	=	1. These criteria are expressed as dissolved metal in the water column. 2. Hardness-dependent equations are used to develop the Fresh Water criteria for chromium (III). The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C. 3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G. 4. Criteria may be adjusted using the water effects ratio (WER) procedure as described in Appendix E.

¹⁵ The following are examples of chromium (III) criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 183 and CCC = 24.

¹⁶ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria

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29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Chromium (VI)</u>	<u>18540299</u>	<u>P</u>	<u>16</u> <u>Standard CMC Frequency & Duration</u>	<u>11</u> <u>Standard CCC Frequency & Duration</u>	<u>1,100</u> <u>Standard CMC Frequency & Duration</u>	<u>50</u> <u>Standard CCC Frequency & Duration</u>
<u>1. These criteria are expressed as dissolved metal in the water column.</u> <u>2. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u> <u>3. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</u>						
<u>Color and Turbidity</u>	<u>—</u>		<u>See 314 CMR 4.05(3) and (4) for narrative criteria for each class of water.</u>			

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Copper</u>	<u>7440508</u>	<u>P</u>	<u>the default calculated concentration using the hardness- dependent equation as set forth in Appendix C</u> <u>or</u> <u>the calculated concentration using the Biotic Ligand Model (BLM) as set forth in Appendix D.</u> <u>However the criterion is determined, the Standard CMC Frequency & Duration applies.</u>	<u>the default calculated concentration using the hardness- dependent equation as set forth in Appendix C</u> <u>or</u> <u>the calculated concentration using the BLM as set forth in Appendix D.</u> <u>However the criterion is determined, the Standard CCC Frequency & Duration applies.</u>	<u>4.8¹⁷</u> <u>Standard CMC Frequency & Duration</u>	<u>3.1¹⁷</u> <u>Standard CCC Frequency & Duration</u>
			<u>1. These criteria are expressed as dissolved metal in the water column.</u> <u>2. Hardness-dependent equations are used to develop the Fresh Water criteria for copper. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.¹⁸</u> <u>3. The BLM is a model used to develop Fresh Water criteria for copper. The input parameters for each criteria calculation using the copper BLM shall consist of a set of pH, DOC, alkalinity, temperature, calcium, magnesium, sodium, potassium, sulfate, and chloride data, for the relevant location.¹⁸</u> <u>4. If both a hardness-dependent and a BLM criteria are calculated or are able to be calculated for a relevant location, the BLM criteria will apply.</u> <u>5. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u>			

¹⁷ Criteria may be adjusted using the water effects ratio (WER) procedure as described in Appendix E.

¹⁸ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER¹</u>	<u>PRIORITY (P)²</u>	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Cyanide</u>	<u>57125</u>	<u>P</u>	<u>22</u> <u>Standard CMC Frequency & Duration</u>	<u>5.2</u> <u>Standard CCC Frequency & Duration</u>	<u>1</u> <u>Standard CMC Frequency & Duration</u>	<u>1</u> <u>Standard CCC Frequency & Duration</u>
<u>4,4'-DDT</u>	<u>50293</u>	<u>P</u>	<u>0.4¹⁹</u> <u>Standard CMC Frequency & Duration</u>	<u>0.001</u> <u>The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.</u>	<u>0.07¹⁹</u> <u>Standard CMC Frequency & Duration</u>	<u>0.001</u> <u>The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.</u>
<u>Demeton</u>	<u>8065483</u>		<u>=</u> <u>Standard CMC Frequency & Duration</u>	<u>0.1</u> <u>Standard CCC Frequency & Duration</u>	<u>=</u> <u>Standard CMC Frequency & Duration</u>	<u>0.1</u> <u>Standard CCC Frequency & Duration</u>
<u>Diazinon</u>	<u>333415</u>		<u>0.17</u> <u>Standard CMC Frequency & Duration</u>	<u>0.17</u> <u>Standard CCC Frequency & Duration</u>	<u>0.82</u> <u>Standard CMC Frequency & Duration</u>	<u>0.82</u> <u>Standard CCC Frequency & Duration</u>

¹⁹ —The 1980 EPA CMC criterion was divided by 2 to obtain a value more comparable to derivations using the 1985 EPA Guidelines.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Dieldrin	60571	P	0.12 ²⁰ Standard CMC Frequency & Duration	0.056 ²¹ Standard CCC Frequency & Duration	0.36 ²⁰ Standard CMC Frequency & Duration	0.0019 ²¹ The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	
Endosulfan (alpha- and beta-)	959988 (alpha) 33213659 (beta)	P	0.11 ²⁰ Standard CMC Frequency & Duration	0.056 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.017 ²⁰ Standard CMC Frequency & Duration	0.0087 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	These criteria apply to the sum of alpha-endosulfan and beta-endosulfan.
Endrin	72208	P	0.086 Standard CMC Frequency & Duration	0.036 ²² Standard CCC Frequency & Duration	0.018 Standard CMC Frequency & Duration	0.0023 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	

²⁰ The 1980 EPA CMC criterion was divided by 2 to obtain values more comparable to derivations using the 1985 EPA Guidelines.

²¹ The CCC did not consider exposure through the diet, which is probably important for aquatic life occupying upper trophic levels.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

Continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Gases, Total Dissolved	=		< 110% saturation	=	< 110% saturation	=	Criteria apply for gases at the existing atmospheric and hydrostatic pressures.
Guthion	86500		=	0.01²³ Standard CCC Frequency & Duration	=	0.01²³ Standard CCC Frequency & Duration	
Heptachlor	76448	P	0.3²⁴ Standard CMC Frequency & Duration	0.0038 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.03²⁴ Standard CMC Frequency & Duration	0.0036 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	
Heptachlor Epoxide	1024573	P	0.3²⁴ Standard CMC Frequency & Duration	0.0038 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.03²⁴ Standard CMC Frequency & Duration	0.0036 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	

²² The Fresh Water CCC did not consider exposure through the diet, which is probably important for aquatic life occupying upper trophic levels.

²³ Criterion was developed using an 0.1 application factor applied to the 96-hour LC50.

²⁴ The 1980 EPA CMC criterion was divided by 2 to obtain values more comparable to derivations using the 1985 EPA Guidelines.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Iron</u>	<u>7439896</u>		=	<u>1,000</u> <u>Standard CCC Frequency & Duration</u>	=	=
<u>Lead</u>	<u>7439921</u>	P	<u>the calculated concentration using the hardness- dependent equation as set forth in Appendix C²⁵</u> <u>Standard CMC Frequency & Duration</u>	<u>the calculated concentration using the hardness- dependent equation as set forth in Appendix C²⁵</u> <u>Standard CCC Frequency & Duration</u>	<u>210</u> <u>Standard CMC Frequency & Duration</u>	<u>8.1</u> <u>Standard CCC Frequency & Duration</u>

²⁵ The following are examples of lead criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 14 µg/L and CCC = 0.54 µg/L.

²⁶ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

Continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Malathion	121755		=	0.1 Standard CCC Frequency & Duration	=	0.1 Standard CCC Frequency & Duration	
Mercury	7439976	P	1.4 Standard CMC Frequency & Duration	0.77 Standard CCC Frequency & Duration	1.8 Standard CMC Frequency & Duration	0.94 Standard CCC Frequency & Duration	1. These criteria are expressed as dissolved metal in the water column. 2. Criteria may be adjusted using the water effects ratio (WER) as described in Footnote E.
Methoxychlor	72435		=	0.03 Standard CCC Frequency & Duration	=	0.03 Standard CCC Frequency & Duration	
Mirex	2385855		=	0.001 Standard CCC Frequency & Duration	=	0.001 Standard CCC Frequency & Duration	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Nickel</u>	<u>7440020</u>	<u>P</u>	<u>the calculated concentration using the hardness- dependent equation as set forth in Appendix C²⁷</u> <u>Standard CMC Frequency & Duration</u>	<u>the calculated concentration using the hardness- dependent equation as set forth in Appendix C²⁷</u> <u>Standard CCC Frequency & Duration</u>	<u>74</u> <u>Standard CMC Frequency & Duration</u>	<u>8.2</u> <u>Standard CCC Frequency & Duration</u>
						<u>1. Criteria are expressed as dissolved metal in the water column.</u> <u>2. Hardness-dependent equations are used to develop the Fresh Water criteria for nickel. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.²⁸</u> <u>3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u> <u>4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</u>
<u>Nonylphenol</u>	<u>84852153</u>		<u>28</u> <u>Standard CMC Frequency & Duration</u>	<u>6.6</u> <u>Standard CCC Frequency & Duration</u>	<u>7</u> <u>Standard CMC Frequency & Duration</u>	<u>1.7</u> <u>Standard CCC Frequency & Duration</u>
<u>Nutrients</u>	<u>—</u>		<u>See 314 CMR 4.05(5)(c) Minimum Criteria.</u>			

²⁷ The following are examples of nickel criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 140 µg/L and CCC = 16 µg/L.

²⁸ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Oil and Grease</u>	<u>==</u>		<u>See 314 CMR 4.05(3) criteria for each class of water.</u>	<u>See 314 CMR 4.05(4) criteria for each class of water.</u>		
<u>Oxygen, Dissolved</u>	<u>7782447</u>		<u>See 314 CMR 4.05(3) criteria for each class of water.</u>	<u>See 314 CMR 4.05(4) criteria for each class of water.</u>		
<u>Parathion</u>	<u>56382</u>		<u>0.065</u> <u>Standard CMC Frequency & Duration</u>	<u>0.013</u> <u>Standard CCC Frequency & Duration</u>	<u>==</u>	<u>==</u>
<u>Pentachlorophenol</u>	<u>87865</u>	<u>P</u>	<u>the calculated concentration using the equation as set forth in Note 1.a.²⁹</u> <u>Standard CMC Frequency & Duration</u>	<u>the calculated concentration using the equation as set forth in Note 1.b.²⁹</u> <u>Standard CCC Frequency & Duration</u>	<u>13</u> <u>Standard CMC Frequency & Duration</u>	<u>7.9</u> <u>Standard CCC Frequency & Duration</u>
<u>pH</u>	<u>==</u>		<u>See 314 CMR 4.05(3) criteria for each class of water.</u>	<u>See 314 CMR 4.05(4) criteria for each class of water.</u>		
<u>Phosphorus, Elemental</u> <u>(also known as “P4”, “white phosphorus” and historically known as “yellow phosphorus”)</u>			<u>==</u>	<u>==</u>	<u>==</u>	<u>0.1</u> <u>Standard CCC Frequency & Duration</u>

²⁹ The following are examples of pentachlorophenol criteria corresponding to a pH of 7: CMC = 8.7 µg/L, CCC = 6.7 µg/L.

³⁰ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Polychlorinated Biphenyls (PCBs)		P	=	0.014 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	=	0.03 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	These criteria apply to total PCBs (the sum of all homolog, all isomer, all congener, or all Aroclor analyses).
Radioactivity			See 314 CMR 4.05(5)(d) Minimum Criteria.				

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Selenium</u>	<u>7782492</u>	<u>P</u>	<u>the calculated concentration using the equation as set forth in Note 3</u> <u>Standard CMC Frequency & Duration</u>	<u>5.0</u> <u>Standard CCC Frequency & Duration</u>	<u>290</u> <u>Standard CMC Frequency & Duration</u>	<u>71</u> ³¹ <u>Standard CCC Frequency & Duration</u>
			<u>1. Fresh Water criteria are expressed as total recoverable metal in the water column.</u> <u>2. Coastal and Marine criteria are expressed as dissolved metal in the water column.</u> <u>3. The freshwater CMC selenium equation is used to develop the criterion for selenium. The input parameters for each calculation using this equation shall consist of data for the fractions of total selenium as selenite and selenate, collected for the relevant location.³² The freshwater CMC selenium equation is the following: $1/[f1/(CMC1) + (f2/CMC2)]$, where f1 and f2 are the fractions of total selenium as selenite and selenate, respectively, and CMC1 = 185.9 µg/l and CMC2 =12.82 µg/l.</u> <u>4. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u>			

³¹ The CCC does not take into account uptake via the food chain; therefore, it is recommended that the status of the fish community be monitored whenever the concentration of selenium exceeds 5.0 µg/L.

³² 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER</u> ¹	<u>PRIORITY (P)</u> ²	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Silver</u>	<u>7440224</u>	<u>P</u>	<u>the calculated concentration using the hardness-based equation as set forth in Appendix C³³</u> <u>Standard CMC Frequency & Duration</u>	<u>=</u>	<u>0.95³⁴</u> <u>Standard CMC Frequency & Duration</u>	<u>=</u> <u>1. These criteria are expressed as dissolved metal in the water column.</u> <u>2. The hardness-dependent equation is used to develop the Fresh Water criterion for silver. The input parameters for the calculation using this equation shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.³⁵</u> <u>3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u> <u>4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</u>
<u>Solids and Turbidity</u>	<u>=</u>		<u>See 314 CMR 4.05(3) narrative criteria for each class of water.</u>		<u>See 314 CMR 4.05(4) narrative criteria for each class of water.</u>	

³³ The following is an example of a criterion applying a hardness of 25 mg/L as CaCO₃: CMC = 0.30 µg/L.

³⁴ The 1980 EPA CMC criterion was divided by 2 to obtain a value more comparable to derivations using the 1985 EPA Guidelines.

³⁵ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			Criterion Maximum Concentration (CMC) ³ µg/L	Criterion Continuous Concentration (CCC) ⁴ µg/L	CMC ³ µg/L	CCC ⁴ µg/L	
Sulfide-Hydrogen Sulfide	7783064		=	2.0 Standard CCC Frequency & Duration	=	2.0 Standard CCC Frequency & Duration	
Taste and Odor	=		See 314 CMR 4.05(3) narrative criteria for each class of water.		See 314 CMR 4.05(4) narrative criteria for each class of water.		
Temperature	=		See 314 CMR 4.05(3) criteria for each class of water.		See 314 CMR 4.05(4) criteria for each class of water.		
Toxaphene	8001352	P	0.73 Standard CMC Frequency & Duration	0.0002 Standard CCC Frequency & Duration	0.21 Standard CMC Frequency & Duration	0.0002 Standard CCC Frequency & Duration	
Tributyltin (TBT)	=		0.46 Standard CMC Frequency & Duration	0.072 Standard CCC Frequency & Duration	0.42 Standard CMC Frequency & Duration	0.0074 Standard CCC Frequency & Duration	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
<u>POLLUTANT</u>	<u>CAS NUMBER¹</u>	<u>PRIORITY (P)²</u>	<u>FRESH WATER</u>		<u>COASTAL & MARINE</u>	
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>
<u>Zinc</u>	<u>7440666</u>	<u>P</u>	<u>the calculated concentration using the applicable hardness-dependent equation as set forth in Appendix C³⁶</u> <u>Standard CMC Frequency & Duration</u>	<u>the calculated concentration using the applicable hardness-dependent equation as set forth in Appendix C³⁶</u> <u>Standard CCC Frequency & Duration</u>	<u>90</u> <u>Standard CMC Frequency & Duration</u>	<u>81</u> <u>Standard CCC Frequency & Duration</u>
<u>1. Criteria are expressed as dissolved metal in the water column.</u> <u>2. Hardness-dependent equations are used to develop the Fresh Water criteria for zinc. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.³⁷</u> <u>3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</u> <u>4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</u>						

³⁶ The following are examples of criteria applying a hardness of 25 mg/L as CaCO₃: CMC = 36 µg/L and CCC = 37 µg/L.

³⁷ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX A: Default Freshwater Aluminum Criteria by Watershed (River Basin or Coastal Drainage Area)*

<u>Default Freshwater Aluminum Criteria by Watershed (River Basin or Coastal Drainage Area)*</u>		
<u>River Basin or Coastal Drainage Area</u>	<u>CMC† (Acute) µg/L</u>	<u>CCC† (Chronic) µg/L</u>
<u>Blackstone</u>	<u>542</u>	<u>270</u>
<u>Boston Harbor/Charles</u>	<u>970</u>	<u>390</u>
<u>Buzzards Bay/Mt Hope Bay/Narragansett Bay/Taunton/Ten-Mile</u>	<u>490</u>	<u>260</u>
<u>Cape Cod Coastal</u>	<u>**</u>	<u>**</u>
<u>Chicopee (5th percentile)</u>	<u>291</u>	<u>171</u>
<u>Connecticut (5th percentile)</u>	<u>630</u>	<u>300</u>
<u>Deerfield</u>	<u>450</u>	<u>220</u>
<u>Farmington/Westfield (5th percentile)</u>	<u>309</u>	<u>180</u>
<u>French/Quinebaug</u>	<u>580</u>	<u>280</u>
<u>Housatonic/Hudson</u>	<u>1400</u>	<u>520</u>
<u>Ipswich/North Coastal/Parker</u>	<u>954</u>	<u>406</u>
<u>Islands Coastal</u>	<u>**</u>	<u>**</u>
<u>Merrimack/Shawsheen (5th percentile)</u>	<u>470</u>	<u>259</u>
<u>Millers</u>	<u>340</u>	<u>210</u>
<u>Nashua (5th percentile)</u>	<u>350</u>	<u>200</u>
<u>South Coastal</u>	<u>1200</u>	<u>460</u>
<u>Sudbury, Assabet, and Concord (SuAsCo)</u>	<u>954</u>	<u>394</u>
*Defaults are based on 10 th percentile criteria calculated from concurrent pH, DOC, and hardness data, except watersheds marked as 5 th percentile to protect state and federal endangered species.		
** Insufficient data are available to calculate watershed-based default criteria.		
†The CMC = Criterion Maximum Concentration and the CCC = Criterion Continuous Concentration		

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX B: Freshwater Ammonia Criteria Calculations

Criteria for ammonia as total ammonia nitrogen (mg/L TAN) are pH- and temperature-dependent. Criteria are derived in accordance with the formulas set forth below, where MIN indicates the lesser of the two values separated by a comma and T is temperature in degrees Celsius. The criterion maximum concentration (CMC or acute) formula differs according to the presence or absence of fish in the family Salmonidae.

1. The CMC (acute) calculation:

- a. The following equation shall be used when Salmonidae species are present. Salmonidae species are presumed present in surface waters designated Cold Waters in 314 CMR 4.00; in MA Division of Fisheries and Wildlife's designated Cold Water Fisheries Resources (CFR); in surface waters where applicable data indicate the definition of a Cold Water Fishery is met ("Cold Water Fishery existing use"); and, as a rebuttable presumption, in any tributary to such designated Cold Waters, CFRs, or Cold Water Fishery existing uses:

$$CMC\ present = MIN\left(\left(\frac{0.275}{1+10^{7.204-pH}} + \frac{39.0}{1+10^{pH-7.204}}\right), \left(0.7249 \times \left(\frac{0.0114}{1+10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}}\right) \times (23.12 \times 10^{0.036 \times (20-T)})\right)\right) \text{ , or}$$

- b. The following equation shall be used when Salmonidae species are absent. Salmonidae species are presumed absent in surface waters designated Warm Waters in 314 CMR 4.00; and in surface waters that are not designated Cold Waters, CFRs or indicated Cold Water Fisheries or tributary to such designated Cold Waters, CFRs or indicated Cold Water Fisheries:

$$CMC\ absent = 0.7249 \times \left(\frac{0.0114}{10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}}\right) \times MIN(51.93, 23.12 \times 10^{0.036 \times (20-T)})$$

2. The following Criterion Continuous Concentration (CCC or chronic) calculation shall be used in all surface waters:

$$CCC = 0.8876 \times \left(\frac{0.0278}{1+10^{7.688-pH}} + \frac{1.1994}{1+10^{pH-7.688}}\right) \times (2.126 \times 10^{0.028 \times (20-MAX(T,7))})$$

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314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX C: Equations and Parameters for Calculating Hardness-Dependent Freshwater Dissolved Metals Criteria

1. Fresh Water criteria for various ambient surface water hardness values shall be calculated using the following hardness-dependent equations:
 - a. For CMC using the equation: $CMC (dissolved) = \exp\{m_c[\ln(hardness)] + b_c\} (CF)$
 - b. For CCC using the equation: $CCC (dissolved) = \exp\{m_c[\ln(hardness)] + b_c\} (CF)$
2. The hardness parameter used in the foregoing equations shall be obtained from the ambient surface water for the relevant location³⁸, except that when the hardness is greater than 400mg/L a default hardness of 400 mg/L may be used or, alternatively, the following procedures may be used:
 - a. for all metals listed in the following table, with the exception of copper, the actual hardness in the applicable hardness-dependent equation, where the resultant criteria is then adjusted by a WER calculated in accordance with Appendix E; or
 - b. for copper only, the Biotic Ligand Model (BLM) as set forth in Appendix D, in place of the hardness-dependent equations.
3. The other parameters used in the foregoing hardness-dependent equations shall be obtained from the applicable entries in the following table:

<u>Parameters for Calculating Freshwater Dissolved Metals Criteria That Are Hardness-Dependent</u>						
<u>Chemical</u>	<u>m_A</u>	<u>b_A</u>	<u>m_C</u>	<u>b_C</u>	<u>Freshwater Conversion Factors (CF)</u>	
					<u>CMC</u>	<u>CCC</u>
<u>Cadmium³⁹</u>	<u>0.9789</u>	<u>-3.866</u>	<u>0.7977</u>	<u>-3.909</u>	<u>$1.136672 - [(\ln hardness)(0.041838)]$</u>	<u>$1.101672 - [(\ln hardness)(0.041838)]$</u>
<u>Chromium III</u>	<u>0.8190</u>	<u>3.7256</u>	<u>0.8190</u>	<u>0.6848</u>	<u>0.316</u>	<u>0.860</u>
<u>Copper</u>	<u>0.9422</u>	<u>-1.700</u>	<u>0.8545</u>	<u>-1.702</u>	<u>0.960</u>	<u>0.960</u>
<u>Lead⁴⁰</u>	<u>1.273</u>	<u>-1.460</u>	<u>1.273</u>	<u>-4.705</u>	<u>$1.46203 - [(\ln hardness)(0.145712)]$</u>	<u>$1.46203 - [(\ln hardness)(0.145712)]$</u>
<u>Nickel</u>	<u>0.8460</u>	<u>2.255</u>	<u>0.8460</u>	<u>0.0584</u>	<u>0.998</u>	<u>0.997</u>
<u>Silver</u>	<u>1.72</u>	<u>-6.59</u>	<u>=</u>	<u>=</u>	<u>0.85</u>	<u>=</u>
<u>Zinc</u>	<u>0.8473</u>	<u>0.884</u>	<u>0.8473</u>	<u>0.884</u>	<u>0.978</u>	<u>0.986</u>

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³⁸ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

³⁹ When an ambient hardness of less than 25 mg/L is used to establish criteria for cadmium or lead, if the calculated hardness-dependent Conversion Factor (CF) is greater than one, it shall default to one.

4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX D: Calculation of Copper Criteria Using the Biotic Ligand Model

Criteria for copper in fresh waters calculated using the BLM shall be subject to the following⁴⁰:

1. In fresh waters only, criteria for aquatic life shall be determined in accordance with the procedure published in EPA's "Aquatic Life Ambient Freshwater Quality Criteria – Copper, 2007 Revision" (EPA-822-R-07-001), which consists of a computational method referred to as "the Biotic Ligand Model for copper" ("the copper BLM"), and which shall be implemented only through software developed for that purpose and approved by MassDEP.
2. For calculating copper aquatic life criteria in freshwater using the copper BLM, MassDEP has approved the copper BLM software version 2.2.3 ("Model 2.2.3"), published by EPA in 2007 and available from MassDEP's website at www.mass.gov.
3. Software updates to Model 2.2.3 may be approved without amendment of this regulation, subject to the following:
 - a. MassDEP's advance written approval is required;
 - b. all updates shall use the toxicity data and water quality criteria calculations referenced in EPA-822-R-07-001, without modification; and
 - c. all updates shall only be made for demonstrated purposes of improving compatibility with current computer operating systems, usability or computational efficiency.
4. Updates to Model 2.2.3 that do not comply with all of the requirements listed in Appendix D.3. to Table 29a: Aquatic Life Criteria, shall only be implemented by amending this regulation.
5. Model 2.2.3 and updates approved pursuant to Appendix D.3. to Table 29a: Aquatic Life Criteria shall be published on MassDEP's website at www.mass.gov or be made available by request to MassDEP.

⁴⁰ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX E: Adjustment of Criteria Using the WER or the Streamlined WER (Copper Only)

1. For specified metals (as noted in Table 29a: Aquatic Life Criteria), criteria may be adjusted in accordance with the procedure published in EPA's "Interim Guidance on Determination and Use of Water-Effect Ratios for Metals, February 1994" (EPA-823-B-94-001) and as clarified and updated by EPA's Aquatic Life Guidelines Committee memo titled "Modifications to Guidance Site-Specific Criteria" dated December 3, 1997 (collectively, the WER). A workplan and/or sampling plan and quality assurance project plan (QAPP) is required for use of the WER and shall be subject to MassDEP's advance written approval.
2. For copper in salt waters (also as noted in Table 29a: Aquatic Life Criteria) only, the criteria may, in the alternative, be adjusted in accordance with the procedure published in EPA's "Streamlined Water-Effect Ratio Procedure for Discharges of Copper" (Streamlined WER, EPA-822-R-01-005), as applicable. A workplan and/or sampling plan and quality assurance project plan (QAPP) is required for either procedure and shall be subject to MassDEP's advance written approval.

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4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX F: Determining the Applicability of Freshwater and Coastal and Marine Criteria

The fresh water and coastal and marine aquatic life criteria apply to a specific location as follows:

1. for water in which the salinity is equal to or less than 1 part per thousand (ppt) 95% or more of the time, the applicable criteria are the fresh water criteria;
2. for water in which the salinity is equal to or greater than 10 ppt 95% or more of the time, the applicable criteria are the coastal and marine criteria;
and
3. for water in which the salinity is between 1 and 10 ppt 95% or more of the time, the applicable criteria are the more stringent of the Fresh Water or Coastal and Marine criteria; or, alternatively, the criteria may be selected based on scientifically defensible information demonstrating that the biology of the surface water at the location is dominated by Fresh Water aquatic life and that Fresh Water criteria are more appropriate; or conversely, the biology of the water body is dominated by Coastal and Marine aquatic life and that Coastal and Marine criteria are more appropriate.

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4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX G: Conversion Factors (CF) to Convert from Total to Dissolved or from Dissolved to Total Concentrations

<u>Conversion Factors (CF) to Convert from Total to Dissolved Concentrations (multiply by CF) or Convert from Dissolved to Total Concentrations (divide by CF)</u>				
<u>Metal</u>	<u>CF for Freshwater CMC</u>	<u>CF for Freshwater CCC</u>	<u>CF for Saltwater CMC</u>	<u>CF for Saltwater CCC</u>
<u>Arsenic</u>	<u>1.000</u>	<u>1.000</u>	<u>1.000</u>	<u>1.000</u>
<u>Cadmium</u>	<u>$1.136672 - [(ln \text{ hardness})(0.041838)]$</u>	<u>$1.101672 - [(ln \text{ hardness})(0.041838)]$</u>	<u>0.994</u>	<u>0.994</u>
<u>Chromium III</u>	<u>0.316</u>	<u>0.860</u>	<u>=</u>	<u>=</u>
<u>Chromium VI</u>	<u>0.982</u>	<u>0.962</u>	<u>0.993</u>	<u>0.993</u>
<u>Copper</u>	<u>0.960</u>	<u>0.960</u>	<u>0.83</u>	<u>0.83</u>
<u>Lead</u>	<u>$1.46203 - [(ln \text{ hardness})(0.145712)]$</u>	<u>$1.46203 - [(ln \text{ hardness})(0.145712)]$</u>	<u>0.951</u>	<u>0.951</u>
<u>Mercury</u>	<u>0.85</u>	<u>0.85</u>	<u>0.85</u>	<u>0.85</u>
<u>Nickel</u>	<u>0.998</u>	<u>0.997</u>	<u>0.990</u>	<u>0.990</u>
<u>Selenium</u>	<u>0.996</u>	<u>0.922</u>	<u>0.998</u>	<u>0.998</u>
<u>Silver</u>	<u>0.85</u>	<u>=</u>	<u>0.85</u>	<u>=</u>
<u>Zinc</u>	<u>0.978</u>	<u>0.986</u>	<u>0.946</u>	<u>0.946</u>

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4.06: continued

29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
Acenaphthene	83329	P	70	90	20
Acrolein	107028	P	3	400	
Acrylonitrile	107131	P	0.061	7.0	
Aldrin	309002	P	0.00000077	0.00000077	
Ammonia	7664417		--	--	30 mg/L*
Anthracene (polycyclic aromatic hydrocarbon or PAH)	120127	P	300	400	
Antimony	7440360	P	5.6	640	
Arsenic	7440382	P	0.018	0.14	
Asbestos	1332214	P	7 million fibers/L	=	

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Bacteria (Pathogens)			*	*		*See 314 CMR 4.05(5)(f) for Minimum Criteria and 314 CMR 4.05(3) and (4) for criteria applicable to each class of water. Criteria are based on primary recreation exposure.
Barium	7440393		1,000	==		Criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.
Benzene	71432	P	0.58-2.1	16-58		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Benzidine	92875	P	0.00014	0.011		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Benzo(a)anthracene (PAH)	56553	P	0.0012	0.0013		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Benzo(a)pyrene (PAH)	50328	P	0.00012	0.00013		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Benzo(b)fluoranthene (PAH) (also known as 3,4-benzofluoranthene)	205992	P	0.0012	0.0013		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Benzo(k)fluoranthene (PAH)	207089	P	0.012	0.013		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Beryllium	7440417		3.7 ng/L	64 ng/L		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Bis(2-Chloroethyl) Ether	111444	P	0.03	2.2		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Bis(Chloromethyl) Ether	542881		0.00015	0.017		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Bis(2-Chloro-1-methylethyl) Ether (also known as Bis(2-Chloroisopropyl) Ether)	108601	P	200	4,000		
Bis(2-Ethylhexyl) Phthalate (also known as Di(2-Ethylhexyl)-Phthalate)	117817	P	0.32	0.37		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29b: HUMAN HEALTH CRITERIA†						
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>	<u>NOTES</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>		
<u>Bromoform*</u> (also known as tribromomethane)	<u>75252</u>	<u>P</u>	<u>7.0</u>	<u>120</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u> <u>*See also total trihalomethanes.</u>
<u>Butylbenzyl Phthalate</u>	<u>85687</u>	<u>P</u>	<u>0.10</u>	<u>0.10</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>Cadmium</u>	<u>7440439</u>	<u>P</u>	<u>5</u>	<u>--</u>		<u>Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993). Criterion was determined assuming a human body weight of 70-kilograms and a drinking water consumption rate of 2 liters/day.</u>
<u>Carbon Tetrachloride</u>	<u>56235</u>	<u>P</u>	<u>0.4</u>	<u>5</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>Chlordane</u>	<u>57749</u>	<u>P</u>	<u>0.00031</u>	<u>0.00032</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>Chlorobenzene</u> (also known as monochlorobenzene)	<u>108907</u>	<u>P</u>	<u>100</u>	<u>800</u>	<u>20</u>	
<u>Chlorodibromomethane*</u> (also known as dibromochloromethane)	<u>124481</u>	<u>P</u>	<u>0.80</u>	<u>21</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u> <u>*See also total trihalomethanes.</u>
<u>Chloroform*</u> (also known as trichloromethane)	<u>67663</u>	<u>P</u>	<u>60</u>	<u>2,000</u>		<u>*See also total trihalomethanes.</u>
<u>2-Chloronaphthalene</u>	<u>91587</u>	<u>P</u>	<u>800</u>	<u>1,000</u>		
<u>2-Chlorophenol</u>	<u>95578</u>	<u>P</u>	<u>30</u>	<u>800</u>	<u>0.1</u>	
<u>3-Chlorophenol</u>	<u>--</u>				<u>0.1</u>	
<u>4-Chlorophenol</u>	<u>106489</u>		<u>--</u>	<u>--</u>	<u>0.1</u>	
<u>Chlorophenoxy Herbicide</u> (also known as 2,4-D)	<u>94757</u>		<u>70</u>	<u>12,000</u>		<u>Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993) and was determined assuming a 70 kg adult ingests 2 liters/day of drinking water.</u>

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4.06: continued

29b: HUMAN HEALTH CRITERIA†						
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>	<u>NOTES</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>		
Chlorophenoxy Herbicide (also known as 2,4,5-TP or Silvex)	93721		50	400		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1996) and was determined assuming a 70 kg adult ingests 2 liters/day of drinking water.
Chromium (total)	7440473	P	100	=		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993) and was determined assuming a 70 kg adult ingests 2 L/day of drinking water and that 0.71 of the total exposure to chromium is through drinking water.
Chrysene (PAH)	218019	P	0.12	0.13		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk. EPA has issued a Maximum Contaminant Level for this chemical which may be more stringent.
Copper	7440508	P	1,300	=	1,000	The exposure criterion is based on carcinogenicity of 10⁻⁶ risk. The exposure criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.
Cyanide	57125	P	4	400		These recommended water quality criteria are expressed as µg total cyanide (i.e., zinc-potassium cyanide, free potassium cyanide and hydrocyanic acid).
Dibenzo(a,h)anthracene	53703	P	0.00012	0.00013		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
1,2-Dichlorobenzene (also known as o-DCB)	95501	P	600	3,000		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993) and was determined by assuming that a 70 kg adult ingests 2 liters/day of water.

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29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
1,3-Dichlorobenzene	541731	P	7	10	
1,4-Dichlorobenzene (also known as p-DCB)	106467	P	5*	900	Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993).
3,3'-Dichlorobenzidine	91941	P	0.049	0.15	The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Dichlorobromomethane* (also known as Bromodichloromethane)	75274	P	0.95	27	The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
p,p'-Dichlorodiphenyldichloroethane (also known as DDD)	72548	P	0.00012	0.00012	*See also total trihalomethane. The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
p,p'-Dichlorodiphenyldichloroethylene (also known as DDE)	72559	P	0.000018	0.000018	The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
p,p'-Dichlorodiphenyltrichloroethane (also known as DDT)	50293	P	0.000030	0.000030	The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
1,2-Dichloroethane	107062	P	5	650	The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
					Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1989). The criterion is based on the 1,2-dichloroethane practical quantitation limit (PQL)
1,1-Dichloroethylene	75354	P	7	20,000	Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1989). The criterion is based on the 1,1-dichloroethylene PQL.
2,3-Dichlorophenol	=		=	=	0.04
2,4-Dichlorophenol	120832	P	10	60	0.3
2,5-Dichlorophenol			=	=	0.5

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29b: HUMAN HEALTH CRITERIA†						
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>	<u>NOTES</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>		
2,6-Dichlorophenol			--	--	0.2	
3,4-Dichlorophenol			--	--	0.3	
1,2-Dichloropropane	78875	P	0.90	31		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
1,3-Dichloropropene	542756	P	0.27	12		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Dieldrin	60571	P	0.0000012	0.0000012		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Diethyl Phthalate	84662	P	600	600		
2,4-Dimethylphenol	105679	P	100	3,000	400	
Dimethyl Phthalate	131113	P	2,000	2,000		
Di-n-Butyl Phthalate	84742	P	20	30		
Dinitrophenols	25550587		10	1,000		
2,4-Dinitrophenol	51285	P	10	300		
2,4-Dinitrotoluene	121142	P	0.049	1.7		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Dioxin (also known as 2,3,7,8-Tetrachloro-dibenzo-p-dioxin or TCDD)	1746016	P	5.0E-9	5.1E-9		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
1,2-Diphenylhydrazine	122667	P	0.03	0.2		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Endosulfan-alpha	959988	P	20	30		
Endosulfan-beta	33213659	P	20	40		
Endosulfan Sulfate	1031078	P	20	40		
Endrin	72208	P	0.03	0.03		
Endrin Aldehyde	7421934	P	1	1		
Ethylbenzene	100414	P	68	130		
Fluoranthene	206440	P	20	20		

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29b: HUMAN HEALTH CRITERIA†					
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L	
Fluorene (PAH)	86737	P	50	70	
Heptachlor	76448	P	0.0000059	0.0000059	
Heptachlor Epoxide	1024573	P	0.000032	0.000032	
Hexachlorobenzene	118741	P	0.000079	0.000079	
Hexachlorobutadiene	87683	P	0.01	0.01	
Hexachlorocyclohexane–alpha (also known as alpha-HCH)	319846	P	0.00036	0.00039	
Hexachlorocyclohexane-beta (also known as beta-HCH)	319857	P	0.008	0.014	
Hexachlorocyclohexane-gamma (also known as gamma-HCH or Lindane)	58899	P	0.2	4.4	
Hexachlorocyclohexane –Technical (also known as technical HCH)	608731		0.0066	0.010	
Hexachlorocyclopentadiene	77474		4	4	1
Hexachloroethane	67721	P	0.1	0.1	
Indeno(1,2,3-cd) pyrene (PAH)	193395	P	0.0012	0.0013	
Iron	7439896				300
Isophorone	78591	P	34	1,800	

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29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
<u>Manganese</u>	<u>7439965</u>		<u>50</u>	<u>100</u>	
					<p><u>The Drinking Water Plus Fish and Shellfish Consumption criterion for manganese is not based on toxic effects, but rather is intended to minimize qualities such as laundry stains and objectionable tastes in beverages.</u></p> <p><u>The Fish & Shellfish Consumption Only criterion was determined assuming a human body weight of 70-kilograms, and a fish consumption rate of 17.5 grams/day.</u></p>
<u>Mercury (inorganic)</u>	<u>--</u>		<u>2</u>	<u>--</u>	
					<u>The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (2004) and was determined assuming a human body weight of 70-kilograms and a drinking water ingestion rate of 2 liters/day.</u>
<u>Methylmercury</u>	<u>22967926</u>	<u>P</u>	<u>--</u>	<u>0.3 mg/kg</u>	
					<u>The Fish and Shellfish Consumption Only criterion was determined assuming a human body weight of 70-kilograms, and a fish consumption rate of 17.5 grams/day.</u>
<u>Methoxychlor</u>	<u>72435</u>		<u>0.02</u>	<u>0.02</u>	
<u>2-Methyl-4-Chlorophenol</u>	<u>--</u>		<u>--</u>	<u>--</u>	<u>1,800</u>
<u>3-Methyl-4-Chlorophenol (also known as p-chloro-m-cresol)</u>	<u>59507</u>	<u>P</u>	<u>500</u>	<u>2,000</u>	<u>3,000</u>
<u>3-Methyl-6-Chlorophenol</u>	<u>--</u>				<u>20</u>
<u>2-Methyl-4,6-Dinitrophenol</u>	<u>534521</u>	<u>P</u>	<u>2</u>	<u>30</u>	
<u>Methyl Bromide</u>	<u>74839</u>	<u>P</u>	<u>100</u>	<u>10,000</u>	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
<u>Methyl tertiary butyl ether (MTBE)</u>	<u>1634044</u>		<u>70</u>	<u>--</u>	<u>20*</u>
					<p><u>The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the ORSG††. This ORSG is derived assuming that a 70 kg adult ingests 2 liters/day of water.</u></p> <p><u>*Odor Threshold – From EPA’s 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)</u></p>
<u>Methylene Chloride (also known as Dichloromethane)</u>	<u>75092</u>	<u>P</u>	<u>5</u>	<u>1,000</u>	
					<p><u>The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1995) and was derived based on the Practical Quantitation Limit (PQL) for Methylene Chloride.</u></p> <p><u>The Fish and Shellfish Consumption Only criteria are based on carcinogenicity of 10⁻⁶ risk.</u></p>
<u>Monochlorobenzene</u>	<u>108907</u>		<u>--</u>	<u>--</u>	<u>20</u>
<u>Nickel</u>	<u>7440020</u>	<u>P</u>	<u>100</u>	<u>4,600</u>	
					<p><u>The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the ORSG††. This ORSG is derived assuming that an adult ingests 2 L/day of water.</u></p> <p><u>The criteria were determined assuming a human body weight of 70-kilograms and a fish consumption rate of 17.5 grams/day.</u></p>
<u>Nitrate (as N) (criterion also applies to total nitrate/nitrite)</u>	<u>14797558</u>		<u>10,000</u>	<u>=</u>	
					<u>Criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.</u>

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
<u>Nitrite</u>	<u>14797650</u>		<u>1,000</u>	<u>--</u>	
<u>Nitrobenzene</u>	<u>98953</u>	<u>P</u>	<u>10</u>	<u>600</u>	<u>30</u>
<u>Nitrosamines</u>	<u>--</u>		<u>0.0008</u>	<u>1.24</u>	
<u>Nitrosodibutylamine</u>	<u>924163</u>		<u>0.0063</u>	<u>0.22</u>	
<u>Nitrosodiethylamine</u>	<u>55185</u>		<u>0.0008</u>	<u>1.24</u>	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
Nitrosopyrrolidine	930552		0.016	34	
N-Nitrosodimethylamine (also known as NDMA)	62759	P	0.00069	3.0	
N-Nitrosodi-n-Propylamine	621647	P	0.0050	0.51	
N-Nitrosodiphenylamine	86306	P	3.3	6.0	
Pentachlorobenzene	608935		0.1	0.1	
Pentachlorophenol	87865	P	0.03	0.04	30

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29b: HUMAN HEALTH CRITERIA†					
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>	
<u>pH</u>	<u>==</u>		<u>See 314 CMR 4.05(3) and 4.05(4) criteria for each class of water.</u>		
<u>Phenol</u>	<u>108952</u>	<u>P</u>	<u>4,000</u>	<u>300,000</u>	<u>300</u>
<u>Polychlorinated Biphenyls (PCBs)</u>		<u>P</u>	<u>0.000064</u>	<u>0.000064</u>	
					<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u> <u>This criterion applies to total PCBs (e.g., the sum of all congener or all isomer or homolog or Aroclor analyses).</u> <u>Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.</u>
<u>Pyrene (PAH)</u>	<u>129000</u>	<u>P</u>	<u>20</u>	<u>30</u>	
<u>Radioactivity</u>			<u>See 314 CMR 4.05(5)(d) Additional Minimum Criteria.</u>		
<u>Selenium</u>	<u>7782492</u>	<u>P</u>	<u>50</u>	<u>4,200</u>	
					<u>Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1996) and was determined assuming a human body weight of 70-kilograms and a drinking water consumption rate of 2 liters/day.</u> <u>Fish and Shellfish Consumption Only Criterion was determined assuming a human body weight of 70-kilograms and a fish consumption rate of 17.5 grams/ day.</u>
<u>Sodium</u>	<u>7440235</u>		<u>==</u>	<u>==</u>	<u>30-60 mg/L*</u>
					<u>*Taste Threshold – From EPA’s 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)</u>

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29b: HUMAN HEALTH CRITERIA†						
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>	<u>NOTES</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>		
<u>Solids (Dissolved) and Salinity</u>	<u>==</u>		<u>250,000</u>	<u>==</u>		<u>This criterion applies to the total of chlorides and sulfates.</u>
<u>Sulfate</u>			<u>==</u>	<u>==</u>	<u>250 mg/L*</u>	<u>*Taste Threshold – From EPA’s 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)</u>
<u>1,2,4,5-Tetrachlorobenzene</u>	<u>95943</u>		<u>0.03</u>	<u>0.03</u>		
<u>Tetrachloroethylene</u>	<u>127184</u>	<u>P</u>	<u>10</u>	<u>29</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>1,1,2,2-Tetrachloroethane</u>	<u>79345</u>	<u>P</u>	<u>0.2</u>	<u>3</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>2,3,4,6-Tetrachlorophenol</u>	<u>==</u>		<u>==</u>	<u>==</u>	<u>1</u>	
<u>Thallium</u>	<u>7440280</u>	<u>P</u>	<u>0.24</u>	<u>0.47</u>		<u>Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.</u>
<u>Toluene</u>	<u>108883</u>	<u>P</u>	<u>57</u>	<u>520</u>		
<u>Total Trihalomethanes (TTHM)</u> <u>(the sum of bromodichloromethane, dibromochloromethane, bromoform (tribromomethane) and chloroform (trichloromethane))</u>			<u>80</u>	<u>==</u>		<u>Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (2004).</u>
<u>Toxaphene</u>	<u>8001352</u>	<u>P</u>	<u>0.00070</u>	<u>0.00071</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>Trans-1,2-Dichloroethylene</u>	<u>156605</u>	<u>P</u>	<u>100</u>	<u>4,000</u>		
<u>1,2,4-Trichlorobenzene</u>	<u>120821</u>	<u>P</u>	<u>0.071</u>	<u>0.076</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>
<u>Trichloroethylene</u>	<u>79016</u>	<u>P</u>	<u>0.6</u>	<u>7</u>		<u>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</u>

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29b: HUMAN HEALTH CRITERIA†						
<u>POLLUTANT</u>	<u>CAS NUMBER</u>	<u>PRIORITY (P)</u>	<u>EXPOSURE TYPE</u>		<u>ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L</u>	<u>NOTES</u>
			<u>DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L</u>	<u>FISH & SHELLFISH CONSUMPTION ONLY µg/L</u>		
1,1,1-Trichloroethane	71556	P	200	200,000		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL and assumes a human body weight of 70-kilograms and a drinking water consumption rate of 2 liters/day.
1,1,2-Trichloroethane	79005	P	0.55	8.9		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
2,4,5-Trichlorophenol	95954		300	600	1	
2,4,6-Trichlorophenol	88062	P	1.5	2.8	2	The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Vinyl Chloride	75014	P	0.022	1.6		The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.
Zinc	7440666	P	7,400	26,000	5,000*	Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.

† Metals criteria are expressed as total concentrations. To identify Massachusetts Maximum Contaminant Levels (MMCL) for pollutants not listed in this table, see 310 CMR 22.00: [Drinking Water](#).

†† The MassDEP Office of Research and Standards (ORS) issues guidance for chemicals other than those with Massachusetts MCLs in drinking water. These ORS guidance values are known as ORS Guidelines or ORSG and are usually developed for use by Departmental programs in the absence of any other federal standards or guidance. ORS uses methodologies similar to that used by the EPA's Office of Groundwater and Drinking Water (OGWDW) when setting guidelines for chemicals in drinking water.

*Unless otherwise noted, criteria are based on a human body weight of 80 kilograms, a water intake rate of 2.4 liters/day (representing the per capita estimate of combined direct and indirect household tapwater ingestion at the 90th percentile for U.S. adults ages 21 and older), and an organism ingestion rate of 22 grams/day (representing the 90th percentile consumption rate of finfish and shellfish from inland and nearshore waters for U.S. adults ages 21 and older).

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REGULATORY AUTHORITY

| 3104 CMR 4.00: M.G.L. c. 21, § 27.

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